Department of Defense Fiscal Year (FY) 2024 Budget Estimates

March 2023



Army

Justification Book Volume 1 of 1

Procurement of W&TCV, Army

UNCLASSIFIED

Army • Budget Estimates FY 2024 • Procurement

Volume 1 Table of Contents

Introduction and Explanation of Contents	Volume 1 - i
Comptroller Exhibit P-1	Volume 1 - iv
Line Item Table of Contents (by Appropriation then Line Number)	Volume 1 - xv
Line Item Table of Contents (Alphabetically by Line Item Title)	Volume 1 - xvii
Exhibit P-1M, Procurement Programs - Modification Summary	Volume 1 - xx
Exhibit P-40s	Volume 1 - 1

Cost Statement

The following Justification Books were prepared at a cost of \$474,495.00: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support Vehicles, Other Procurement Army (OPA) 2 - Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 5C, Budget Activity 6, Budget Activity 7, and Budget Activity 8.

PROCUREMENT OF W&TCV, ARMY

Appropriation Language

For construction, procurement, production, and modification of weapons and tracked combat vehicles, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefore, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, \$3,765,521,000.00 to remain available for obligation until September 30, 2026.

Fiscal Year (FY) 2024 Overseas Operations Costs funding accounted for in the Base budget total \$17,956,000.00.

FY 2022 includes \$55,564,000.00 in OOC execution. FY 2023 includes \$96,019,000.00 in OOC enacted budget. FY 2024 includes \$17,956,000.00 for the OOC budget request.

Department of Defense FY 2024 President's Budget Exhibit P-1 FY 2024 President's Budget Total Obligational Authority DoD Component Summary (Dollars in Thousands)

Appropriation Summary	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment	FY 2023 Total Enactment	FY 2024 Request
Procurement of Weapons and Tracked Combat Vehicles, Army	5,252,894	4,505,157		4,505,157	3,765,521
Total Department of the Army	5,252,894	4,505,157		4,505,157	3,765,521
Grand Total Department of Defense	5,252,894	4,505,157		4,505,157	3,765,521

^{*}Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

Department of the Army FY 2024 President's Budget Exhibit P-1 FY 2024 President's Budget Total Obligational Authority Army Summary (Dollars in Thousands)

		FY 2023 Less	FY 2023		
	FY 2022	Supplementals	Supplementals	FY 2023 Total	FY 2024
Appropriation Summary	Actuals	Enactment	Enactment'	Enactment	Request
Procurement of Weapons and Tracked Combat Vehicles, Army	5,252,894	4,505,157		4,505,157	3,765,521
Total Department of the Army	5,252,894	4,505,157		4,505,157	3,765,521

^{*}Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

Department of the Army FY 2024 President's Budget Exhibit P-1 FY 2024 President's Budget Total Obligational Authority 2033A BA Summary

(Dollars in Thousands)

FY 2023 FY 2023 Less FY 2022 Supplementals Supplementals FY 2023 Total FY 2024 Actuals Enactment Enactment' Enactment Request Appropriation: Procurement of Weapons and Tracked Combat Vehicles, Army **Budget Activity** 3,990,456 4,846,149 3,990,456 3,288,523 01. Tracked combat vehicles 406,745 514,701 514,701 476,998 02. Weapons and other combat vehicles 5,252,894 4,505,157 4,505,157 3,765,521 Total Procurement of Weapons and Tracked Combat Vehicles, Army

^{*}Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

Department of the Army FY 2024 President's Budget Exhibit P-1 FY 2024 President's Budget Total Obligational Authority

2033A Detail

(Dollars in Thousands)

FY 2023 Less FY 2023 Supplementals Appropriation: 2033 Procurement of Weapons and Tracked Combat \ FY 2022 Actuals Supplementals Enactment Enactment Line Ident Se No Item Nomenclature Code C Quantity Cost Quantity Cost Cost Quantity Budget Activity 01: Tracked combat vehicles Tracked Combat Vehicles 950,366 43 380,677 1 Armored Multi Purpose Vehicle (AMPV) 16,454 3,852 2 ASSAULT BREACHER VEHICLE (ABV) Ū 23 286,977 29 3 Mobile Protected Firepower 354,708 Modification of Tracked Combat Vehicles Stryker Upgrade U 228 1,082,828 180 891,171 Α 5 BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE Ū 6 Bradley Program (MOD) 460,385 260,398 U M109 FOV Modifications 333 3,028 υ 8 43 662,900 43 680,089 Paladin Integrated Management (PIM) IMPROVED RECOVERY VEHICLE (M88 HERCULES) 51,725 21 9 132,203 U

Page 4

^{*}Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

Department of the Army FY 2024 President's Budget Exhibit P-1 FY 2024 President's Budget

Total Obligational Authority

2033A Detail

(Dollars in Thousands)

-	opriation: 2033 Procurement of Weapons and Tracked Combat V			FY 2023 Total Enactment		FY 2024 Request	
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost
Budge	et Activity 01: Tracked combat vehicles						
Trac	ked Combat Vehicles						
1	Armored Multi Purpose Vehicle (AMPV)	A	υ	43	380,677	91	554,7
2	ASSAULT BREACHER VEHICLE (ABV)	A	υ		3,852		
3	Mobile Protected Firepower		U	29	354,708	33	394,63
Modi	fication of Tracked Combat Vehicles						
4	Stryker Upgrade	A	U	180	891,171	85	614,28
5	BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE	A	U			128	5,23
6	Bradley Program (MOD)	A	U		260,398		158,27
7	M109 FOV Modifications	Α	Ü		3,028		90,98
8	Paladin Integrated Management (PIM)	A	υ	43	680,089	24	469,15
9	IMPROVED RECOVERY VEHICLE (M88 HERCULES)	A	Ü	21	132,203	0	41,05

Page 5

Department of the Army FY 2024 President's Budget

Exhibit P-1 FY 2024 President's Budget

Total Obligational Authority 2033A Detail

(Dollars in Thousands)

FY 2023 Less FY 2023 Supplementals Appropriation: 2033 Procurement of Weapons and Tracked Combat \ FY 2022 Actuals Supplementals Enactment Enactment Line Ident Se Item Nomenclature Code Quantity Cost Quantity Cost Quantity Cost 2.136 U 10 Assault Bridge (Mod) 334 M88 FOV MODS 11 Α U 17 110,588 36,990 12 Joint Assault Bridge U 90 1,145,837 90 1,247,340 U 13 Abrams Upgrade Program Advance Procurement (CY) Abrams Upgrade Program C (FY 2024 for FY 2025) (M) VEHICLE PROTECTION SYSTEMS (VPS) 75,286 15 401 4,846,149 412 3,990,456 Total Tracked combat vehicles Budget Activity 02: Weapons and other combat vehicles Weapons & Other Combat Vehicles

16

17

Personal Defense Weapon (Roll)

M240 Medium Machine Gun (7.62mm)

Page 6

Mar 2023

7,000

11,017

10,500

^{*}Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

Department of the Army

FY 2024 President's Budget

Exhibit P-1 FY 2024 President's Budget Total Obligational Authority

2033A Detail

(Dollars in Thousands)

FY 2024 Request Appropriation: 2033 Procurement of Weapons and Tracked Combat \ FY 2023 Total Enactment Line Ident Se No Item Nomenclature Code c Quantity Cost Quantity Cost 10 Assault Bridge (Mod) U 11 M88 FOV MODS Α U 36,990 24 159,804 12 Joint Assault Bridge Α 34 697,883 13 Abrams Upgrade Program 1,247,340 U 102,440 Advance Procurement (CY) Abrams Upgrade Program (102,440)C (FY 2024 for FY 2025) (M) 15 VEHICLE PROTECTION SYSTEMS (VPS) 412 3,990,456 419 3,288,523 Total Tracked combat vehicles Budget Activity 02: Weapons and other combat vehicles Weapons & Other Combat Vehicles 100 510 16 Personal Defense Weapon (Roll) U 10,500 425 17 M240 Medium Machine Gun (7.62mm) Ū

Page 7

Department of the Army FY 2024 President's Budget

Exhibit P-1 FY 2024 President's Budget

Total Obligational Authority 2033A Detail

(Dollars in Thousands)

0000 5				TT 2000 T		FY 2023		FY 2023 Supplementals	
Line	ation: 2033 Procurement of Weapons and Tracked Combat	: \ Ident	60	FY 2022 A	ctuals	Supplementals Enactment		Enactment	
	Item Nomenclature	Code	c	Quantity	Cost	Quantity	Cost	Quantity	Cost'
18	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S	А	U		31,623		26,627		
19	Machine Gun, Cal .50 M2 Roll	A	Ū						
20	Mortar Systems		υ		33,240		8,516		
21	LOCATION & AZIMUTH DETERMINATION SYSTEM (LADS	A	υ				48,301		
22	XM320 Grenade Launcher Module (GLM)	A	U		13,934		11,703		
23	Precision Sniper Rifle	A	U		9,505		6,436		
24	Carbine	A	ū		7,226				
25	Next Generation Squad Weapon	A	υ		97,087		166,623		
26	Handgun	A	υ		4,930				
Mod o	of Weapons and Other Combat Veh								
27	MK-19 Grenade Machine Gun MODS		O		35,121				
28	M777 Mods	A	U		16,576		3,374		

^{*}Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

Department of the Army FY 2024 President's Budget

Exhibit P-1 FY 2024 President's Budget Total Obligational Authority

2033A Detail

(Dollars in Thousands)

FY 2023 Total Enactment FY 2024 Request Appropriation: 2033 Procurement of Weapons and Tracked Combat \ Line Ident Se No Item Nomenclature Code Quantity Cost Quantity Cost 26,627 MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S U 18 3,420 19 Machine Gun, Cal .50 M2 Roll 8,516 8,013 U 20 Mortar Systems 3,174 48,301 21 LOCATION & AZIMUTH DETERMINATION SYSTEM (LADS U 11,703 14,143 XM320 Grenade Launcher Module (GLM) 22 U 23 Precision Sniper Rifle Ū 6,436 5,248 571 24 Carbine Α Ū 166,623 292,850 Next Generation Squad Weapon 32 26 U Handgun Mod of Weapons and Other Combat Veh 27 MK-19 Grenade Machine Gun MODS U 3,374 18,920 28 M777 Mods U

Department of the Army FY 2024 President's Budget

Exhibit P-1 FY 2024 President's Budget

Total Obligational Authority 2033A Detail

(Dollars in Thousands)

propriation: 2033 Procurement of Weapons and Tracked Combat \				FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment	
Line		Ident				_		_	
No	Item Nomenclature	Code	С	Quantity	Cost	Quantity	Cost	Quantity	Cost
29	M2 50 Cal Machine Gun MODS	В	ប		7,076		3,000		
30	Sniper Rifles Modifications		U		80				
31	M119 Modifications	Α	U				2,263		
32	Mortar Modification	A	Ü						
Suppo	rt Equipment & Facilities								
33	Items Less Than \$5.0m (WOCV-WTCV)		U		13,826		2,138		
34	Production Base Support (WOCV-WTCV)		υ		118,504		225,220	•	
Total	Weapons and other combat vehicles		_		406,745		514,701		
Total	Procurement of Weapons and Tracked Combat Vehicles,	Army	-	401	5,252,894	412	4,505,157		

^{*}Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

Department of the Army FY 2024 President's Budget

Exhibit P-1 FY 2024 President's Budget

Total Obligational Authority 2033A Detail

(Dollars in Thousands)

	ation: 2033 Procurement of Weapons and Tracked Combat	7		FY 2023 Total	Enactment	FY 2024 F	Request
Line No	Item Nomenclature	Ident Code	Se c	Over tite	G t	0	
29	M2 50 Cal Machine Gun MODS	В	U	Quantity	3,000	Quantity	Cost
30	Sniper Rifles Modifications		U				
31	M119 Modifications	A	U		2,263		13,097
32	Mortar Modification	A	U				423
Suppo	rt Equipment & Facilities						
33	Items Less Than \$5.0m (WOCV-WTCV)		υ		2,138		1,148
34	Production Base Support (WOCV-WTCV)		σ		225,220		115,024
Total	Weapons and other combat vehicles		_		514,701	100	476,998
Total	Procurement of Weapons and Tracked Combat Vehicles, A	rmy	-	412	4,505,157	519	3,765,521

Army • Budget Estimates FY 2024 • Procurement

Line Item Table of Contents (by Appropriation then Line Number)

Appropriation 2033A: Procurement of W&TCV, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
1	01	10	2944G80819	Armored Multi Purpose Vehicle (AMPV)	Volume 1 - 1
2	01	10	4872G84900	ASSAULT BREACHER VEHICLE (ABV)	Volume 1 - 10
3	01	10	7181G80820	Mobile Protected Firepower	Volume 1 - 12
4	01	20	0363G85200	Stryker Upgrade	Volume 1 - 24
5	01	20	1382GZ3300	BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE	Volume 1 - 41
6	01	20	1678GZ2400	Bradley Program (MOD)	Volume 1 - 46
7	01	20	2072GA0400	M109 FOV Modifications	Volume 1 - 65
8	01	20	2073GZ0410	Paladin Integrated Management (PIM)	Volume 1 - 86
9	01	20	3700GA0570	IMPROVED RECOVERY VEHICLE (M88 HERCULES)	Volume 1 - 96
10	01	20	4520GZ3250	Assault Bridge (Mod)	
11	01	20	5129G80571	M88 FOV MODS	Volume 1 - 103
12	01	20	5225GZ3001	Joint Assault Bridge	Volume 1 - 104
13	01	20	6500GA0750	Abrams Upgrade Program	Volume 1 - 112
14	01	20	6500GA0750	Abrams Upgrade Program, Advance Procurement	Volume 1 - 123
15	01	20	6652GM1900	VEHICLE PROTECTION SYSTEMS (VPS)	Volume 1 - 127

UNCLASSIFIED

Army • Budget Estimates FY 2024 • Procurement

Appropriation 2033A: Procurement of W&TCV, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
16	02	10	0418GN0003	PERSONAL DEFENSE WEAPON (ROLL)	Volume 1 - 129
17	02	10	2472G13000	M240 Medium Machine Gun (7.62mm)	Volume 1 - 131
18	02	10	3736G13101	MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM	Volume 1 - 133
19	02	10	5000GB2000	Machine Gun, Cal .50 M2 Roll	
20	02	10	6580G02200	Mortar Systems	Volume 1 - 141
21	02	10	6659G08100	LOCATION & AZIMUTH DETERMINATION SYSTEM (LADS)	Volume 1 - 147
22	02	10	8181G01501	XM320 Grenade Launcher Module (GLM)	Volume 1 - 149
23	02	10	8190G01506	Precision Sniper Rifle	Volume 1 - 155
24	02	10	8201G13501	Carbine	Volume 1 - 161
25	02	10	8205G14510	Next Generation Squad Weapon	Volume 1 - 163
26	02	10	8635G15325	Handgun	Volume 1 - 187
27	02	20	3000GB3000	MK-19 Grenade Machine Gun MODS	
28	02	20	3005GZ1700	M777 Mods	Volume 1 - 190
29	02	20	3015GB4000	M2 50 Cal Machine Gun MODS	Volume 1 - 198
30	02	20	3181GZ1500	Sniper Rifles Modifications	Volume 1 - 200
31	02	20	3640GC0401	M119 Modifications	Volume 1 - 202

UNCLASSIFIED

Army • Budget Estimates FY 2024 • Procurement

Appropriation 2033A: Procurement of W&TCV, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
32	02	20	7054G02100	Mortar ModificationVolume	1 - 218
33	02	30	1862GL3200	Items Less Than \$5.0m (WOCV-WTCV)Volume	1 - 220
34	02	30	3270GC0050	Production Base Support (WOCV-WTCV)Volume	1 - 222

Army • Budget Estimates FY 2024 • Procurement

Line Item Table of Contents (Alphabetically by Line Item Title)

Line Item Title	Line Item Number	Line #	ВА	BSA Page
ASSAULT BREACHER VEHICLE (ABV)	4872G84900	2	01	10Volume 1 - 10
Abrams Upgrade Program	6500GA0750	13	01	20 Volume 1 - 112
Abrams Upgrade Program, Advance Procurement	6500GA0750	14	01	20Volume 1 - 123
Armored Multi Purpose Vehicle (AMPV)	2944G80819	1	01	10Volume 1 - 1
Assault Bridge (Mod)	4520GZ3250	10	01	20Volume 1 - 102
BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE	1382GZ3300	5	01	20 Volume 1 - 41
Bradley Program (MOD)	1678GZ2400	6	01	20 Volume 1 - 46
Carbine	8201G13501	24	02	10Volume 1 - 161
Handgun	8635G15325	26	02	10Volume 1 - 187
IMPROVED RECOVERY VEHICLE (M88 HERCULES)	3700GA0570	9	01	20 Volume 1 - 96
Items Less Than \$5.0m (WOCV-WTCV)	1862GL3200	33	02	30 Volume 1 - 220
Joint Assault Bridge	5225GZ3001	12	01	20 Volume 1 - 104
LOCATION & AZIMUTH DETERMINATION SYSTEM (LADS)	6659G08100	21	02	10Volume 1 - 147
M109 FOV Modifications	2072GA0400	7	01	20Volume 1 - 65
M119 Modifications	3640GC0401	31	02	20 Volume 1 - 202
M2 50 Cal Machine Gun MODS	3015GB4000	29	02	20 Volume 1 - 198
M240 Medium Machine Gun (7.62mm)	2472G13000	17	02	10 Volume 1 - 131

UNCLASSIFIED

UNCLASSIFIEDArmy • Budget Estimates FY 2024 • Procurement

Line Item Title	Line Item Number	Line #	ВА	BSA	Page
M777 Mods	3005GZ1700	28	02	20	Volume 1 - 190
M88 FOV MODS	5129G80571	11	01	20	Volume 1 - 103
MK-19 Grenade Machine Gun MODS	3000GB3000	27	02	20	Volume 1 - 188
MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM	3736G13101	18	02	10	Volume 1 - 133
Machine Gun, Cal .50 M2 Roll	5000GB2000	19	02	10	Volume 1 - 139
Mobile Protected Firepower	7181G80820	3	01	10	Volume 1 - 12
Mortar Modification	7054G02100	32	02	20	Volume 1 - 218
Mortar Systems	6580G02200	20	02	10	Volume 1 - 141
Next Generation Squad Weapon	8205G14510	25	02	10	Volume 1 - 163
PERSONAL DEFENSE WEAPON (ROLL)	0418GN0003	16	02	10	Volume 1 - 129
Paladin Integrated Management (PIM)	2073GZ0410	8	01	20	Volume 1 - 86
Precision Sniper Rifle	8190G01506	23	02	10	Volume 1 - 155
Production Base Support (WOCV-WTCV)	3270GC0050	34	02	30	Volume 1 - 222
Sniper Rifles Modifications	3181GZ1500	30	02	20	Volume 1 - 200
Stryker Upgrade	0363G85200	4	01	20	Volume 1 - 24
VEHICLE PROTECTION SYSTEMS (VPS)	6652GM1900	15	01	20	Volume 1 - 127
XM320 Grenade Launcher Module (GLM)	8181G01501	22	02	10	Volume 1 - 149

Army • Budget Estimates FY 2024 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary (Listing by Model)

Lookup Matrix by Model

Model:	M2 & M3 Bradley V	ehicle Variants	
P-3a Inc	lividual Modification	ns	
Modi	fication Number	Modification Title	Applies to Multiple Models
	GZ2400	Bradley Program (MOD)	No
Model:	M109 Howitzer and	M992 FAASV/CAT Vehicles	
P-3a Inc	lividual Modification	ns .	
Modi	fication Number	Modification Title	Applies to Multiple Models
	GA0400	M109 FOV Modifications	No
Model:	M777A2		
P-3a Inc	lividual Modification	ns en	
Modi	fication Number	Modification Title	Applies to Multiple Models
	GZ1700	M777 Mods	No
Model:	M119A3 Howitzer		
P-3a Inc	lividual Modification	ns .	
Modi	fication Number	Modification Title	Applies to Multiple Models
	GC0401	M119 Modifications	No

Army • Budget Estimates FY 2024 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary (Funding for Modifications)

Funding (\$ M)

P-3a Modification Title	PYS	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Exhibit P-3a										
Bradley Program (MOD)	6,738.018	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154
M109 FOV Modifications	2,198.238	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-
M777 Mods	165.045	16.576	3.374	18.920	-	18.920	20.014	2.424	1.556	1.557
M119 Modifications	396.741	-	2.263	13.097	-	13.097	7.450	1.258	1.209	1.210
Totals (Total Obligation Authority)										
Total Obligation Authority	9,498.042	477.294	269.063	281.277	0.000	281.277	205.059	152.781	103.901	106.921

Date: March 2023 Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: 2944G80819 / Armored Multi Purpose Vehicle (AMPV)

Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0605028A

Line Item MDAP/MAIS Code: 471

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	447	0	43	91	-	91	88	101	76	96	1,801	2,743
Gross/Weapon System Cost (\$ in Millions)	1,494.534	950.366	380.677	554.777	-	554.777	561.462	631.904	513.920	613.453	14,094.908	19,796.001
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,494.534	950.366	380.677	554.777	-	554.777	561.462	631.904	513.920	613.453	14,094.908	19,796.001
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,494.534	950.366	380.677	554.777	-	554.777	561.462	631.904	513.920	613.453	14,094.908	19,796.001
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	e corresponding	g budget request:	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3,343.477	-	8,852.953	6,096.451	-	6,096.451	6,380.250	6,256.475	6,762.105	6,390.135	7,826.157	7,216.916

Description:

The Armored Multi-Purpose Vehicle (AMPV) is the materiel solution for replacement of the Army's Armored Personnel Carrier (M113) Family of Vehicles (FoV) within the Armored Brigade Combat Team (ABCT).

This line is directly aligned to the Army Next Generation Combat Vehicle Modernization Priority.

It will mitigate current and future capability gaps in force protection, mobility, reliability, and interoperability across the Spectrum of Conflict. The AMPV will replace five mission roles currently performed by the M113 Family of Vehicles by transferring the current M113 Mission Equipment Packages (MEP) to a new Military Vehicle Derivative (MVD) platform.

In total, the AMPV Family of Vehicles will account for approximately 30% of the Armored Brigade Combat Team's tracked fleet and consists of the following five variants:

- 1. Mission Command (MCmd) Variant: This platform enables effective mission command planning and execution for both the Tactical Operations Center (TOC) and Tactical Command Vehicle (TAC) versions of the Mission Command Variant. It will host current Battle Command Systems, future replacements, and upgrades of hardware and software.
- 2. Medical Treatment (MT) Variant: This platform will provide a protected surgical environment, with adequate lighting and accessible medical equipment. It will provide a capability for immediate medical care for one patient by a medical crew of four.
- 3. Medical Evacuation (ME) Variant: This platform will conduct ambulance type activities and provide casualty evacuation for up to four litter (tactical stretcher) or six ambulatory patients, with a crew of three medical attendants.
- 4. General Purpose (GP) Variant: This platform will operate throughout the battle space by conducting re-supply, maintenance, casualty evacuation, and other tasks within the formation.
- 5. Mortar Carrier (MC) Variant: This platform will provide immediate responsive fire support to conduct fast-paced offensive operations.
- 6. Procuring AMPV vehicles to support Terrestrial Layered System (TLS) Program for Project Manager (PM) Electronic Warfare and Cyber.

UNCLASSIFIED Page 1 of 9

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: 2944G80819 / Armored Multi Purpose Vehicle (AMPV)

Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0605028A

Line Item MDAP/MAIS Code: 471

ID Code (A=Service Ready, B=Not Service Ready): A

Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	43	91	-	91	88	101	76	96
	Total Obligation Authority	950.366	380.677	554.777	-	554.777	561.462	631.904	513.920	613.453
Total:	Quantity	-	43	91	-	91	88	101	76	96
Secondary Distribution	Total Obligation Authority	950.366	380.677	554.777	-	554.777	561.462	631.904	513.920	613.453

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: 2944G80819 / Armored Multi Purpose Vehicle (AMPV)

Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0605028A

Line Item MDAP/MAIS Code: 471

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	G80819 / Armored Multi Purpose Vehicle (AMPV)	P-5a, P-21	Α		447 / 1,494.534	0 / 950.366	43 / 380.677	91 / 554.777	- / -	91 / 554.777
P-40	Total Gross/Weapon System Cost				447 / 1,494.534	0 / 950.366	43 / 380.677	91 / 554.777	- 1 -	91 / 554.777

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 procurement dollars in the amount of \$554.777 million procures 91 Armored Multi-Purpose Vehicles (AMPVs). Accordingly, FY 2024 procurement covers government engineering, logistics, testing and program management efforts. It also includes purchase of Government Furnished Equipment, Government Furnished Material, and kits, Funding supports improvements to meet performance specification requirements, user requested system enhancements stemming from the July 2022 Initial Operational Test, and obsolescence management to identify and mitigate diminishing manufacturing and material sources to enable uninterrupted production. Finally, funding supports fleet modifications that address changes to the vehicle configurations, retrofit of previously procured hardware and improvements. AMPV will mitigate current and future capability gaps in force protection, mobility, reliability, and interoperability across the Spectrum of Conflict.

Please note: FY 2024 AMPV quantities are draft and subject to change pending final FY 2023 Full Rate Production (FRP) contract/final negotiated pricing as well as impact of/if additional procurement/ economies of scale.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objective (AAO): 2897 vehicles

UNCLASSIFIED Page 3 of 9

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 10

P-1 Line Item Number / Title:
2944G80819 / Armored Multi Purpose Vehicle (AMPV)

Item Number / Title [DODIC]:
G80819 / Armored Multi Purpose Vehicle (AMPV)

ID Code (A=Service Ready, B=Not Service Ready): A		M	DAP/MAIS Code:			
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	447	0	43	91	-	91
Gross/Weapon System Cost (\$ in Millions)	1,494.534	950.366	380.677	554.777	-	554.777
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,494.534	950.366	380.677	554.777	-	554.777
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,494.534	950.366	380.677	554.777	-	554.777
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget reques	s are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3,343.477	-	8,852.953	6,096.451	-	6,096.451

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	5		FY 2022			FY 2023		F۱	′ 2024 Bas	se	FY	/ 2024 OC	0	FY	/ 2024 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost								'		'			<u> </u>		·	'	'	
Recurring Cost																		
Vehicle Manufacturing - Contractor ^(†)	3,082.436	447	1,377.849	4,929.630	154	759.163	6,221.163	43	267.510	4,219.736	91	383.996	-	-	-	4,219.736	91	383.99
Government Furnished Material (GFM)	-	-	-	-	-	107.857	-	-	30.114	-	-	64.769	-	-	-	-	-	64.76
Engineering Change Orders	-	-	20.462	-	-	8.519	-	-	16.858	-	-	21.611	-	-	-	-	-	21.61
Sys Eng / Prog Mgmt (Government)	-	-	46.852	-	-	17.150	-	-	23.546	-	-	25.687	-	-	-	-	-	25.68
Sys Test & Evaluation (Government)	-	-	-	-	-	1.439	-	-	2.534	-	-	2.770	-	-	-	-	-	2.77
Training Devices	-	-	17.644	-	-	10.363	-	-	1.013	-	-	1.385	-	-	-	-	-	1.38
Total Package Fielding (TPF)	-	-	22.090	-	-	15.463	-	-	17.380	-	-	31.098	-	-	-	-	-	31.09
System Technical Support (STS)	-	-	9.637	-	-	30.412	-	-	21.722	-	-	23.461	-	-	-	-	-	23.46
Subtotal: Recurring Cost	-	-	1,494.534	-	-	950.366	-	-	380.677	-	-	554.777	-	-	-	-	-	554.77
Subtotal: Flyaway Cost	-	-	1,494.534	-	-	950.366	-	-	380.677	-	-	554.777	-	-	-	-	-	554.77
Gross/Weapon System Cost	3,343.477	447	1,494.534	-	0	950.366	8,852.953	43	380.677	6,096.451	91	554.777	-	-	-	6,096.451	91	554.77

Remarks:

UNCLASSIFIED
Page 4 of 9

Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: 2944G80819 / Armored Multi Purpose Vehicle (AMPV)	Item Number / Title [DODIC]: G80819 / Armored Multi Purpose Vehicle (AMPV)

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Army Acquisition Objective (AAO): 2897 vehicles. To date, the AMPV program has 447 production vehicles on contract with BAE Systems.

FY 2022 production contract procures 154 vehicles. FY 2022 quantity data will be updated to reflect the total quantity of 154 when the database reopens to update for actual execution prior to the FY 2025 President's Budget.

FY 2024 AMPV quantities are subject to change pending final FY 2023 Full Rate Production (FRP) contract/final negotiated pricing as well as impact of/if additional procurement/economies of scale.

FY 2024 Minimum Sustaining Rate is five 5 per month and the Maximum Sustaining Rate is approximately 16-17 per month.

The Vehicle Manufacturing cost element increased from prior year to \$383.996 million to procure 91 full rate production vehicles.

The Gov't Furnished Material cost element increased to \$64.769 million to procure engines, transmissions, and additional parts required to furnish 91 full rate production vehicles.

The Engineering Change Orders cost element of \$21.611 million addresses user requested changes stemming from Low Rate Initial Production (LRIP) and Initial Operational Testing (IOT).

The Sys Eng. / Prog Mgmt. cost element increased to \$25.687 million as the program transitioned to the Full Rate Production and Deployment phase and ramping up production rates in FY 2024.

The Sys Test & Evaluation cost element holds consistent at \$2,770 million to support follow on production testing to ensure vehicles received from the production line are meeting quality standards.

The Training Device cost element holds consistent at \$1.385 million to update training devices to the latest vehicle configuration.

The Total Packaging Fielding cost element increased to \$31.098 million. The primary increase is due to the program fielding AMPVs to (5) different fielding sites in FY 2024 as well as the need for interim supply support Contractor Logistic Support (CLS) until the Defense Logistics Agency (DLA) can fully support all AMPV unique parts. DLA is expected to be onboard to organically support by FY 2026. This cost element provides fielding team support, training material refinement, initial spare parts to support the Army's fielding plans.

The System Technical Support cost element increased to \$23.461 million. This cost element provides support to full rate production in FY 2024, as well as identify production process improvements, manage obsolescence, maintain software, fix issues stemming from test, provide logistics support, and perform problem investigations.

Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	-	43	91	-	91
	Total Obligation Authority	950.366	380.677	554.777	-	554.777
Total:	Quantity	0	43	91	-	91
Secondary Distribution	Total Obligation Authority	950.366	380.677	554.777	-	554.777

(†) indicates the presence of a P-5a

UNCLASSIFIED
Page 5 of 9

Exhibit P-5a, Procurement History and Planning: PB 2024 A	Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10		Item Number / Title [DODIC]: G80819 / Armored Multi Purpose Vehicle (AMPV)

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Vehicle Manufacturing - Contractor ^(†)	1	2022	BAE Land Systems / York, PA	Option / FPIF	Warren, MI	Feb 2023	Dec 2024	154	4,929.630	N		
Vehicle Manufacturing - Contractor ^(†)		2023	BAE Land Systems / York, PA	Option / FPIF	Warren, MI	Feb 2023	Oct 2025	43	6,221.163	N		
Vehicle Manufacturing - Contractor ^(†)		2024	BAE Land Systems / York, PA	Option / FPIF	Warren, MI	Feb 2024	Jan 2026	91	4,219.736	N		

^(†) indicates the presence of a P-21

Remarks

FY 2022 production contract procures 154 vehicles. FY 2022 quantity data will be updated to reflect the total quantity of 154 when the database reopens to update for actual execution prior to the FY 2025 President's Budget.

The monthly production rate is expected to increase from the 12 vehicles per month demonstrated in Low Rate Initial Production (LRIP) to approximately 16-17 vehicles per month during Full Rate Production (FRP).

FY 2023 production contract assumes procurement of 43 vehicles and the FY 2024 production contract assumes a procurement of 91 vehicles. Final delivery schedules will be defined at contract award in FY 2023 and no production break is expected at this time.

Additionally, the FY 2024 AMPV quantities are draft and subject to change pending the final FY 2023 Full Rate Production (FRP) contract/final negotiated pricing.

E	xhi	bit F	P-21, Pr	oduct	on Sc	hedu	le: PE	3 202	4 Arn	ıy														Date	: Mar	ch 20)23				
		•	iation / 01 / 10	Budge	et Acti	vity /	Budç	get S	ub Ac	tivity	:	1		I tem 0819 /				Purpos	se Ve	hicle	(AMP	V)			819 <i>1</i>			[DO D Iulti P	DIC]: urpos	e Ve	hicle
				lements in Each)								Fiscal Y	ear 2023	1										Fiscal Ye	ar 2024						В
					ACCEPT									C	alendar	Year 202	23								Calen	dar Year	2024] Ļ
0	F R #	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	n n	A U G	S E P	0 C T	N O V	D E C	N P C	FEB	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	A N C E
Ve	ehicle	Manut	acturing - Co	ntractor																					,						
Pr	rior Y	ears De	eliveries: 447																												
✓	1	2022	ARMY	154	0	154					Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
	1	2023	ARMY	43	0	43		_		_	Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
	1	2024	ARMY	91	0	91																	Α -	-	-	-	-	-	-	-	9
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Ext	hib	it P	P-21, Pro	oduct	ion Sc	hedu	le: PE	3 202	4 Arm	у														Date	: Mar	ch 20	23				
	-	-	i ation / I)1 / 10	Budg	et Acti	vity /	Budç	get Su	ıb Ac	tivity:		1	Line 4G80					Purpos	e Ve	hicle	(AMP	V)			819 <i>1</i> .	iber / ' Armor			OIC]: urpose	e Ve	hicle
			Cost El (Units i	lements in Each)								Fiscal Y	ear 2025										F	iscal Ye	ar 2026						В
					ACCEPT									С	alendar	Year 202	:5								Calen	dar Year	2026				L
O F	r.	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
Vehi	icle M	Manufa	acturing - Cor	ntractor																											
Prior	r Yea	ars De	eliveries: 447																												
√ 1	1 20	2022	ARMY	154	0	154	-	-	5	12	14	16	16	16	16	16	16	16	11												
1	1 20	2023	ARMY	43	0	43	-	-	-	-	-	-	-	-	-	-	-	-	5	16	16	6									
1	1 20	2024	ARMY	91	0	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	16	16	16	16	16	1			
,	·						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Exhibit P-21, Production Schedule: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: 2944G80819 / Armored Multi Purpose Vehicle (AMPV)	Item Number / Title [DODIC]: G80819 / Armored Multi Purpose Vehicle (AMPV)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Ir	itial		·	Reo	rder	
Ref	Manufacturer Name - Location	MSR For 2024	1-8-5 For 2024	MAX For 2024	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
#		WISK FOI 2024	1-0-3 FOI 2024	WAX FUI 2024	FIIOI to OCt 1	Aiter Oct 1	FLI	Aitei Oct i	FIIOI to Oct 1	Aiter Oct 1	FLI	Ailei Oct i
1	BAE Land Systems - York, PA	5	10	17	0	10	19	29	0	6	18	24

Remarks:

There is no production break planned or expected.

FY 2022 production funding procures 154 vehicles. FY 2022 quantity data will be updated to reflect the total quantity of 154 when the database reopens to update for actual execution prior to the FY 2025 President's Budget.

The monthly production rate is expected to increase from the 12 vehicles per month demonstrated in Low Rate Initial Production (LRIP) to approximately 16-17 vehicles per month during Full Rate Production (FRP).

FY 2023 production funding procures 43 vehicles.

FY 2024 production funding is estimated to procure 91 vehicles. The FY 2024 Minimum Sustaining Rate is 5 per month and the Maximum Sustaining Rate is approximately 16-17 per month.

Additionally, the FY 2024 AMPV quantities are draft and subject to change pending the final FY 2023 Full Rate Production (FRP) contract/final negotiated pricing.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: 4872G84900 / ASSAULT BREACHER VEHICLE (ABV)

Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0603804A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready):

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	36	12	-	-	-	-	12	12	12	-	84
Gross/Weapon System Cost (\$ in Millions)	-	16.454	3.852	-	-	-	-	10.181	10.194	10.203	-	50.884
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	16.454	3.852	-	-	-	-	10.181	10.194	10.203	-	50.884
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	16.454	3.852	-	-	-	-	10.181	10.194	10.203	-	50.884
(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)			·	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	457.056	321.000	-	-	-	-	848.417	849.500	850.250	-	605.762

Description:

The Assault Breacher Vehicle (ABV) is a tracked combat engineer vehicle for the Army Armored Brigade Combat Team (ABCT) and Combat Engineer Company - Armor (CEC-A). It is designed to breach minefields and barrier obstacles to enable tanks and infantry of the ABCT to maintain pace in offensive combat operations. The Assault Breacher Vehicle provides crew protection and vehicle survivability equal to the M1A1 Abrams tank hull and has the speed and mobility to keep pace with the armor maneuver force. The Assault Breacher Vehicle hull is an overhauled M1A1 Abrams tank hull with modifications for its mission to support engineer companies within ABCTs and includes two Linear Demolition Charge Systems (modified Mine Clearing Line Charge (MICLC) systems), interchangeable Engineer Breaching System hardware consisting of a Full Width Mine Plow and a Combat Dozer Blade, a Lane Marking System to automatically mark a cleared path behind the Assault Breacher Vehicle and an integrated day/night vision system. The Assault Breacher Vehicle is fabricated at Anniston Army Depot (ANAD).

The Assault Breacher Vehicles' Army Acquisition Objective (AAO) is 201.

Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	24	12	-	-	-	-	12	12	12
	Total Obligation Authority	11.864	3.852	-	-	-	-	10.181	10.194	10.203
ANG	Quantity	12	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.590	-	-	-	-	-	-	-	-
Total:	Quantity	36	12	-	-	-	-	12	12	12
Secondary Distribution	Total Obligation Authority	16.454	3.852	-	-	-	-	10.181	10.194	10.203

Justification:

There is no FY 2024 budget request for this line.

UNCLASSIFIED Page 1 of 2

	UNCLA	SSIFIED		
Exhibit P-40, Budget Line Item Justification	n: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Su 2033A: Procurement of W&TCV, Army / BA 0° Tracked Combat Vehicles	ub Activity: 1: Tracked Combat Vehicles / BSA 10:	P-1 Line Item Nur 4872G84900 / AS		
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B I	ems: N/A	Other Related Program Elements: 0603804A	
Line Item MDAP/MAIS Code: N/A	<u> </u>			
		item is necessary for use	e by the active and reserve components of the Armed Forces for homeland	

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: 7181G80820 / Mobile Protected Firepower

Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604645A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	23	29	33	-	33	38	37	37	41	113	351
Gross/Weapon System Cost (\$ in Millions)	-	286.977	354.708	394.635	-	394.635	558.656	569.125	590.208	620.822	1,840.808	5,215.939
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	286.977	354.708	394.635	-	394.635	558.656	569.125	590.208	620.822	1,840.808	5,215.939
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	286.977	354.708	394.635	-	394.635	558.656	569.125	590.208	620.822	1,840.808	5,215.939
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	e corresponding	g budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	12,477.261	12,231.310	11,958.636	-	11,958.636	14,701.474	15,381.757	15,951.568	15,142.000	16,290.336	14,860.225

Description:

Infantry Brigades currently lack the mobile, protected firepower capability necessary to defeat enemy prepared positions, destroy enemy armored vehicles, close with the enemy through fire and maneuver, and ensure freedom of maneuver and action in close contact with the enemy. The Mobile Protected Firepower Procurement funding supports production and fielding of the Mobile Protected Firepower (MPF) system, which will provide the Army's Infantry Brigade Combat Teams (IBCTs) a protected, long range, precision direct-fire capability to ensure freedom of movement during offensive operations and defeat attacking enemy during defensive operations.

On 25 September 2018, the Army Acquisition Executive (AAE) approved the use of Middle Tier Acquisition (MTA) authorities to execute MPF Rapid Prototyping. On 17 December 2018, Rapid Prototyping contracts were awarded to BAE Systems and General Dynamics Land Systems (GDLS). Delivery of MPF prototypes commenced in 3rd Quarter (3Q) FY 2020 and MTA Rapid Prototyping system level testing occurred from 4th Quarter (4Q) FY 2020 to early 2nd Quarter (2Q) FY 2022.

On 24 June 2022, the AAE approved an MPF Milestone C and on 28 June 2022 GDLS was awarded the MPF Low Rate Initial Production (LRIP) contract. During LRIP, the Army will complete evaluation of MPF system performance on production-representative vehicles, verify system operational effectiveness and suitability, establish an initial MPF production base, and execute and orderly production ramp-up leading into MPF Full Rate Production (FRP). A MPF Full Rate Production (FRP) Decision is targeted for 2nd Quarter (2Q) FY 2025 and the MPF First Unit Equipped (FUE) is targeted for 4th Quarter (4Q) 2025.

The Mobile Protected Firepower Army Acquisition Objective (AAO) is 504 systems.

LI 7181G80820 - Mobile Protected Firepower

This program element is directly aligned with the Next Generation Combat Vehicle (NGCV) Modernization Priority.

	Secondary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	23	29	33	-	33	14	19	37	28
	Total Obligation Authority	286.977	354.708	394.635	-	394.635	205.821	292.253	590.208	423.976
ANG	Quantity	-	-	-	-	-	24	18	-	13
	Total Obligation Authority	-	-	-	-	-	352.835	276.872	-	196.846

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: 7181G80820 / Mobile Protected Firepower

Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604645A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Total:	Quantity	23	29	33	-	33	38	37	37	41
Secondary Distribution	Total Obligation Authority	286.977	354.708	394.635	-	394.635	558.656	569.125	590.208	620.822

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: 7181G80820 / Mobile Protected Firepower

Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604645A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	G80820 / Mobile Protected Firepower	P-5a, P-21	Α		- / -	23 / 286.977	29 / 354.708	33 / 394.635	- / -	33 / 394.635
P-40	Total Gross/Weapon System Cost				- 1 -	23 / 286.977	29 / 354.708	33 / 394.635	- 1 -	33 / 394.635

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base Procurement dollars in the amount of \$394.635 million supports the production of 33 Low Rate Initial Production (LRIP) Mobile Protected Firepower (MPF) systems, purchase of MPF Initial Spares and Special Tools (ISST), procurement of Systems Technical Support (STS), build of MPF Training Aids, Devices, Simulators, and Simulations (TADSS), and performance of Government Program Management of system production and fielding activities.

Production: In FY 2024, 33 MPF LRIP vehicles will be procured to provide 14 vehicles to Training and Doctrine Command (TRADOC) for institutional training, enable fielding of two MPF company sets to the second MPF-equipped Infantry Battalion, and to facilitate an orderly production ramp up to Full Rate Production (FRP). MPF Production includes the Contractor-Furnished End-Item delivered by General Dynamics Land Systems (GDLS), as well as Government Furnished Property. Primary production activities will occur in Lima, Ohio (turret fabrication); Saginaw, Michigan (hull fabrication); and Anniston, Alabama (final assembly).

Initial Spares and Special Tools: Includes Authorized Stockage List (ASL), Spares Acquisition Integrated with Production (SAIP), Special tools and Test Equipment (STTE), and Test, Measurement, and Diagnostic Equipment (TMDE) to support MPF Total Package Fielding (TPF) and New Equipment Training. ASL provides an MPF equipped unit with 60 days of parts necessary to initially sustain the vehicles during fielding and ensure readiness subsequent to fielding. SAIP will prime Army wholesale level supply stocks with MPF spare parts needed to sustain the MPF until replenishment can be accomplished based on spares demands from MPF equipped units. STTE will provide MPF maintainers with required capabilities at the field level beyond those found in the Army's common tools. TMDE includes diagnostic and prognostic equipment; semiautomatic and automated test equipment, to include test program set and calibration test or measurement equipment to perform fault isolation and system diagnostics.

Systems Technical Support (STS): Includes System Engineering, Logistics Engineering, Software Maintenance, and Prime Contractor Program Management. Systems Engineering includes development of engineering changes, obsolescence management to identify material shortages and loss of manufacturing sources, cyber security assessments, and Configuration Management of the MPF Technical Data Package (TDP). Logistics Engineering includes technical and operator manual updates, provisioning updates, and supportability analysis of design changes to the MPF system. Software Maintenance includes software updates for engineering changes, software licenses, and modification of existing software to address emerging cybersecurity issues and maintain MPF system interoperability. Contractor Program Management includes STS contract administration, STS cost and schedule management, and development of contract deliverables and reporting.

Training Devices: Includes procurement of Crew Module Unit Player (CMUR) and Vehicle Tactical Engagement Simulation System (VTESS) kits to support the FY 2025 MPF First Unit Equipped (FUE).

Program Management: Includes salaries, travel, training, supplies, facilities, equipment, and support contractors to perform contracting, engineering, logistics, and operations activities to support LRIP Phase vehicle production, initial spares procurement, training device production, and STS.

Army Acquisition Objective (AAO): 504 vehicles.

This funding line is directly aligned to the Army Next Generation Combat Vehicle (NGCV) Modernization Priority.

UNCLASSIFIED Page 3 of 12

	ONOLA							
Exhibit P-40, Budget Line Item Justification:	PB 2024 Army		Date: March 2023					
Appropriation / Budget Activity / Budget Sub 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles	Activity: Tracked Combat Vehicles / BSA 10:							
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Ite	ems: N/A	Other Related Program Elements: 0604645A					
Line Item MDAP/MAIS Code: N/A								
		item is necessary for use	by the active and reserve components of the Armed Forces for homeland					

LI 7181G80820 - Mobile Protected Firepower Army

						O.	IOLAU		•								
Analysi	s: PB 20	24 Army	,										Date: M	arch 202	23		
udget A	ctivity /	Budget	Sub Act	ivity:	I					wer							wer
y, B=Not Serv	ice Ready):	A						М	DAP/MAIS	Code:							
Resource	Summ	arv		F	Prior Yea	ars	FY 20)22	FY	2023	FY 2	2024 Bas	se F	Y 2024 (ОСО	FY 2024	Total
	-	<i>y</i>		-													3:
	15)											394			_		394.63
								-		-			-		-		-
•						-		286.977		354.70	18	394	1.635		-		394.63
	llions)					-		-		-			-		-		-
•						-		286.977		354.70	8	394	1.635		-		394.63
ne following i	Resource Si	ummary row	s are for info	rmational pu	irposes only	. The corres	ponding bud	get request	s are docum	ented elsewl	nere.)						
					. ,	-	. •			-			-		-		-
it Cost (\$ in	Thousands)					-		12,477.261		12,231.31	0	11,958	3.636		-		11,958.636
											1		1				
n this Exhibit	t P-5 may no	ot be exact o	or sum exactl	y due to rou	nding.												
F	Prior Years	3		FY 2022			FY 2023		F۱	/ 2024 Bas	е	F۱	/ 2024 OC	0	F	Y 2024 Tota	al
Unit Cost	Qty (Fach)	Total Cost	Unit Cost	Qty (Fach)	Total Cost	Unit Cost	Qty (Fach)	Total Cost	Unit Cost	Qty (Fach)	Total Cost	Unit Cost	Qty (Fach)	Total Cost	Unit Cost	Qty (Fach)	Total Cost (\$ M)
(\$75)	(Edon)	(\$ 111)	(\$79	(Eddin)	(ψ πη	(\$75)	(Eddin)	(\$ 101)	(\$75)	(Luon)	(\$ 11.)	(\$75)	(Luon)	(\$ 101)	(\$75)	(Eddii)	(ψ πη
-	-	-	-	-	0.144	-	-	15.305	-	-	23.673	-	-	-	-	-	23.67
-	-	-	-	-	0.144	-	-	15.305	-	-	23.673	-	-	-	-	-	23.67
-	-	-	-	-	0.144	-	-	15.305	-	-	23.673	-	-	-	-	-	23.67
						1											
-	-	-	12,163.783	23	279.767	11,128.172	29	322.717	10,142.848	33	334.714	-	-	-	10,142.848	33	334.714
	-	-	-	-	0.606	-	-	1.160		-	1.477	-	-	-	-	-	1.47
-	-	-	-	-	280.373	-	-	323.877	-	-	336.191	-	-	-	-	-	336.19
-	-	-	-	-	280.373	-	-	323.877	-	-	336.191	-	-	-	-	-	336.19
										T							
-	-	-	-	-	3.325	-	-	5.368	-	-	17.660	-	-	-	-	-	17.66
-	-	-	-	-		-	-	5.368	-	-		-	-	-	-	-	17.66
-	-	-	-	-	3.325	-	-	5.368	-	-	17.660	-	-	-	-	-	17.66
	wdget A y, B=Not Serv Resource s in Each) st (\$ in Millions) ment (\$ in Mi n Millions) ment (\$ in Millions) e following it Cost (\$ in until Cost (\$ K)	udget Activity / y, B=Not Service Ready) : // Resource Summ s in Each) st (\$ in Millions) ment (\$ in Millions) ment (\$ in Millions) y (\$ in Millions) e following Resource So it Cost (\$ in Thousands) n this Exhibit P-5 may no Prior Years Unit Cost (\$ K) Qty (Each)	udget Activity / Budget y, B=Not Service Ready) : A Resource Summary s in Each) st (\$ in Millions) ment (\$ in Millions) ment (\$ in Millions) y (\$ in Millions) re following Resource Summary row it Cost (\$ in Thousands) n this Exhibit P-5 may not be exact of Prior Years Unit Cost (\$ K) Cost (\$ K) Cost (\$ M)	Resource Summary Is in Each) Ist (\$ in Millions) Iment (\$ in Mill	udget Activity / Budget Sub Activity: y, B=Not Service Ready) : A Resource Summary s in Each) st (\$ in Millions) ment (\$ in Millions) ment (\$ in Millions) y (\$ in Millions) re following Resource Summary rows are for informational put it Cost (\$ in Thousands) n this Exhibit P-5 may not be exact or sum exactly due to rou Prior Years Total Cost (\$ K) Unit Cost (\$ K) Unit Cost (\$ K) Unit Cost (\$ K) 23	P-1	Analysis: PB 2024 Army udget Activity / Budget Sub Activity: P-1 Line Item 7181G80820 Prior Years Prior Years s in Each) st (\$ in Millions)	Analysis: PB 2024 Army udget Activity / Budget Sub Activity: y, B=Not Service Ready) : A Resource Summary prior Years FY 20 s in Each) set (s in Millions) ment (s in Millions) ret following Resource Summary rows are for informational purposes only. The corresponding budget it Cost (s in Thousands) nthis Exhibit P-5 may not be exact or sum exactly due to rounding. Prior Years FY 2022 FY 2023 Total (s K) Unit Cost (s K) Cost (s K) Unit Cost (s K) Cost (s K) Cost (s K) Unit Cost (s K) C	Analysis: PB 2024 Army udget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 7181G80820 / Mobile Protecte 7181G80820 / Mobile Protect	P-1 Line Item Number Title: T181G80820 Mobile Protected Firepo MDAP/MAIS Resource Summary Prior Years FY 2022 FY Substitutions Substitutions	Analysis: PB 2024 Army udget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 7181G80820 / Mobile Protected Firepower	Analysis: PB 2024 Army udget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 7181G80820 / Mobile Protected Firepower	Analysis: PB 2024 Army udget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 7181G80820 / Mobile Protected Firepower MDAP/MAIS Code: (Esource Summary	Analysis: PB 2024 Army udget Activity / Budget Sub Activity: P-1 Line Item Number / Title: T181G80820 / Mobile Protected Firepower G80820	Analysis: PB 2024 Army udget Activity / Budget Sub Activity:	Date: March 2023 Name Na	Analysis: PB 2024 Army udget Activity / Budget Sub Activity: P-1 Line Item Number / Title:

LI 7181G80820 - Mobile Protected Firepower Army

UNCLASSIFIED
Page 5 of 12

P-1 Line #3

Exhibit P-5, Cost Analysis: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2033A / 01 / 10

7181G80820 / Mobile Protected Firepower

G80820 / Mobile Protected Firepower

ID Code (A=Service Ready, B=Not Service Ready): A

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

MDAP/MAIS Code:

	F	rior Years	3		FY 2022			FY 2023		F`	Y 2024 Ba	se	F	Y 2024 OC	0	F	Y 2024 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Logistics Cost																		
Non Recurring Cost																		
Training Devices - Production	-	-	-	-	-	-	-	-	-	-	-	8.032	-	-	-	-	-	8.032
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	8.032	-	-	-	-	-	8.032
Subtotal: Logistics Cost	-	-	-	-	-	-	-	-	-	-	-	8.032	-	-	-	-	-	8.032
Support - Program Manageme	ent Cost											•						
Government Management	-	-	-	-	-	3.135	-	-	10.159	-	-	9.079	-	-	-	-	-	9.079
Subtotal: Support - Program Management Cost	-	-	-	-	-	3.135	-	-	10.159	-	-	9.079	-	-	-	-	-	9.079
Gross/Weapon System Cost	-	-	-	12,477.261	23	286.977	12,231.310	29	354.708	11,958.636	33	394.635	-	-	-	11,958.636	33	394.635

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	5		FY 2022			FY 2023		F	Y 2024 Ba	se	F`	/ 2024 OC	0	F`	Y 2024 Tot	al
Cost Element Breakout	Unit Cost	Qty (Each)	Total Cost (\$ M)															
System Technical Support	-	-	-	-	-	0.144	-	-	15.305	-	-	23.673	-	-	-	-	-	23.673
Systems Technical Support - Contractor Program Management	-	-	-	-	-	0.144	-	-	0.144	-	-	0.150	-	-	-	-	-	0.150
Systems Technical Support - Systems Engineering and Logistics Engineering	-	-	-	-	-	-	-	-	15.161	-	-	23.523	-	-	-	-	-	23.523

Remarks:

FY 2024 Base Procurement dollars will procure 33 Mobile Protected Firepower (MPF) vehicles.

Government Program Management: Includes salaries, travel, training, supplies, facilities, equipment, and support contractors necessary to manage contracting, engineering, logistics, and operations activities to support Low Rate Initial Production (LRIP) Phase vehicle production, training device production, Systems Technical Support (STS), and fielding efforts.

Based on actual execution of the program FY 2022 quantities are now 22 and will be updated prior to the submission of the FY 2025 budget submission.

				FY 2024	FY 2024	FY 2024
Secondar	y Distribution	FY 2022	FY 2023	Base	осо	Total
Army	Quantity	23	29	33	-	33

LI 7181G80820 - Mobile Protected Firepower Army

UNCLASSIFIED
Page 6 of 12

P-1 Line #3

Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	P-1 Line Item Number / Title: 7181G80820 / Mobile Protected Firepower	Item Number / Title [DODIC]: G80820 / Mobile Protected Firepower

ID Code (A=Service Ready, B=Not Service	ce Ready):A		MDAP/MAIS Code) :		
Seco	ondary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
	Total Obligation Authority	286.977	354.708	394.635	-	394.635
Total:	Quantity	23	29	33	=	33
Secondary Distribution	Total Obligation Authority	286.977	354.708	394.635	-	394.635

 $^{^{(\}dagger)}$ indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024 A	ırmy	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2033A / 01 / 10	7181G80820 / Mobile Protected Firepower	G80820 / Mobile Protected Firepower

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Production - Contractor Furnished End Item $^{(\dagger)}$		2022	General Dynamics Land Systems / Various	Option / FPIF	Army Contracting Command - Warren, Michigan	Jun 2022	Nov 2023	23	12,163.783	N		
Production - Contractor Furnished End Item ^(†)		2023	General Dynamics Land Systems / Various	Option / FPIF	Army Contracting Command - Warren, Michigan	May 2023	Nov 2024	29	11,128.172	N		
Production - Contractor Furnished End Item ^(†)		2024	General Dynamics Land Systems / Various	Option / FPIF	Army Contracting Command - Warren, Michigan	Apr 2024	Nov 2025	33	10,142.848	N		

^(†) indicates the presence of a P-21

Remarks:

In December 2018, contracts for Mobile Protected Firepower (MPF) Rapid Prototyping were awarded to BAE Systems and General Dynamics Land Systems (GDLS). In 2QFY22, the Source Selection Evaluation Board (SSEB) convened to down-select to a single vendor for Low Rate Initial Production (LRIP). MPF received Milestone C approval from the Army Acquisition Executive (AAE) on 24 June, 2022. GDLS was awarded the LRIP contract.

Based on actual execution of the program FY 2022 quantities are now 22 and will be updated prior to the submission of the FY 2025 budget submission.

Ex	hil	bit P	-21, Pro	oduct	ion Sc	hedu	le: PE	3 202	4 Arm	าง														Date	e: Ma	rch 20)23				
-	-	-	ation / 1	Budg	et Acti	vity /	Budg	get Si	ub Ac	tivity	' :	1	Line 31G80					d Fire	powe	er								[DOD tected		powe	er
				ements n Each)								Fiscal \	ear 2022	!										Fiscal Y	ear 2023						В
					ACCEPT									(Calendar	Year 20	22								Caler	ndar Year	2023] [
0 0	F R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	0 C	N O V	D E C	J A N	F E B	E A P A U U E								N O V	D E	J A N	F E B	M A R	A P R	M A	J U N	J	A U G	S E P	N C
_		1	ontractor Fur			1001	'			N	6	K		<u>'</u>	- 14		_ G	_ F				14				'	11			Ė	
T	1	2022	ARMY	23	0	23									Α -	-	T -	- 1	-	-	-	-	-	-	-	-	-		-	-	1
	1	2023	ARMY	29	0	29																			J	Α -	-	-	-	-	
	1	2024	ARMY	33	0	33																									
	,						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U L	A U G	S E P	

Ex	thi	ibit F	P-21, Pr	oduct	ion Sc	hedu	le: PE	3 202	4 Arm	ıy														Date	: Ma	rch 20)23				
			iation / 01 / 10	Budg	et Acti	vity /	Budç	get Sı	ıb Ac	tivity	•	1		Item 0820 /					powe	er						nber / Mobil			OIC]:	owe	r
				lements in Each)								Fiscal Y	ear 2024											Fiscal Ye	ear 2025						В
					ACCEPT			_						C	alendar	Year 202	24								Caler	ndar Year	2025				L
0 0 0	R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	O C T	N O V	Calendar Year 2024								S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E	
Pro	oduc	ction - C	ontractor Fur	nished En	d Item																										
	1	2022	ARMY	23	0	23	-	2	2	3	3	2	2	2	2	2	2	1													
	1	2023	ARMY	29	0	29	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	3	3	3	
	1	2024	ARMY	33	0	33							Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
	•						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

CX	chi	bit F	P-21, Pro	ducti	on Sc	hedul	e: PE	3 202	4 Arm	ıy														Date	e: Ma	rch 20	23			
-	-	-	iation / I)1 / 10	Budge	t Acti	vity /	Budg	get Sı	ub Ac	tivity	:		Line 31G80						epowe	er				- 1		nber / Mobil		_	_	powe
			Cost El (Units i									Fiscal Y	ear 2026)											Fiscal Y	ear 2027					
	M			1					•	Calendar	Year 20	26		1		1				Caler	dar Year	2027								
0 C 0	F R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
Pro	oduc	R PROCOCT ASOF COE A E A PAUUUUE COEA EA PAUUUU E COEA E A PAUUU E C																												
	1	2022	ARMY	23	23	0																								
	1	2023	ARMY	29	25	4	4											,												
	1	2024	ARMY	33	0	33	-	3	3	3	3	3	3	3	4	4	4				1									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P

Exhibit P-21, Production Schedule: PB 2024 Army	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10	Item Number / Title [DODIC]: G80820 / Mobile Protected Firepower

		Produc	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2024	1-8-5 For 2024	MAX For 2024	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
	General Dynamics Land Systems - Various	4	4	6	0	1	17	18	0	12	17	29

Remarks:

In FY 2022, three additional Low Rate Initial Production (LRIP) Lot 1 vehicles were procured with Research, Development, Test and Evaluation (RDT&E) funding to support Mobile Protected Firepower (MPF) Full Up System Level (FUSL) Live Fire Testing. These systems will be delivered in September 2024 through October 2024.

The FY 2024 Mobile Protected Firepower (MPF) Low Rate Initial Production (LRIP) buy includes 33 vehicles, all procured with funding within Weapons and Tracked Combat Vehicles (WTCV) Line Item 7181G80820/Mobile Protected Firepower. While the contractual manufacturing lead time is 17 months, in an effort to reduce program schedule risk while MPF manufacturing processes continue to mature, the Army intends to award the FY 2024 Production Option in April 2024, 19 months from first vehicle delivery (November 2025).

Based on actual execution of the program FY 2022 quantities are now 22 and will be updated prior to the submission of the FY 2025 budget submission.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Army Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 0363G85200 / Stryker Upgrade

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A Other Related Program Elements: 0203735A ID Code (A=Service Ready, B=Not Service Ready): A

Line Item MDAP/MAIS Code: N/A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	919	228	180	85	-	85	110	189	187	182	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	3,404.464	1,082.828	891.171	614.282	-	614.282	654.326	865.441	816.703	860.055	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,404.464	1,082.828	891.171	614.282	-	614.282	654.326	865.441	816.703	860.055	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,404.464	1,082.828	891.171	614.282	-	614.282	654.326	865.441	816.703	860.055	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	budget request:	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3,704.531	4,749.246	4,950.950	7,226.847	-	7,226.847	5,948.418	4,579.053	4,367.396	4,725.577	Continuing	Continuing

Description:

A dynamic, asymmetric threat and operational environment demands full spectrum, strategically responsive, agile, and dominant land forces. Immediate response by a lethal, versatile, tactically agile joint force capable of operational maneuver is essential to fulfilling the Army's Warfighting needs. The Stryker-equipped Brigade Combat Team (BCT) is this force. The use of a common platform/common chassis design reduces requirements for repair parts and logistics support in the area of operations. In response to operational needs identified in the Theater of Operations, the Stryker Double-V-Hull (DVH) survivability enhancement was approved for development and production by Acquisition Decision Memorandums (ADM) signed April 2010 and May 2011, respectively. The May 2011 ADM approved production of two Brigades, a 3rd DVH Brigade was approved in September 2011 with a 4th approved in September 2014. A DVH brigade is constructed through an exchange effort by which components and mission equipment packages are removed from flat bottom hull Strykers to be reassembled in the DVH structure along with the associated DVH unique components. In May 2012, Phase 1 (Technology Development), Stryker DVH A1 Engineering Change Proposal (DVHA1 ECP), formerly ECP1, development effort was approved to provide power generation, suspension, and network upgrades to restore Stryker DVH Space. Weight, and Power-Cooling (SWaP-C) lost as a result of incorporating vehicle changes to counter threats encountered during deployment operations. In May 2013, Phase II for the DVH A1 ECP development effort was approved. The DVH A1 ECP was approved for production in August 2016, with the DVH A1 ECP vehicles being produced using the exchange production process. Stryker Brigade Combat Teams (SBCTs). equipped with DVH A1 ECP vehicles, can be used across the full spectrum of military operations. Stryker Brigade Combat Teams (SBCTs) are required to deploy rapidly and conduct effective combat operations immediately on arrival to prevent, contain, stabilize, or resolve a conflict through shaping and decisive operations. On 23 March 2018, the Army Requirements Oversight Council (AROC) approved the exchange of all remaining flat bottom hull Stryker Brigades from flat bottom hull to DVH A1 ECP. Program Office awarded on 30 June 2020 a follow-on DVH A1 ECP requirements contract for FY20-25, with an additional one year option. Production of Stryker DVH A1 ECP vehicles for this contract will be produced through a blend of new vehicle production and the current exchange process due to the limited available inventory of flat bottom hull Strykers required to feed the exchange production process. Configurations of Stryker DVHA1 ECP vehicles are:

Double-V-Hull A1 ECP Infantry Carrier: The DVH A1 ECP Infantry Carrier Vehicle (ICVVA1) carries an infantry squad with individual equipment. The Infantry Carrier Vehicle also provides protected transport and supporting fires for the infantry squad during dismounted assault. DVH A1 ECP Infantry Carrier Vehicles with a Scout Dismount Kit provide for dismounted force situational awareness, gathering, and transmitting real time intelligence while moving throughout the battlefield in close, complex, and urban terrain.

Double-V-Hull A1 ECP Mortar Carrier: The DVH A1 ECP Mortar Carrier (MCVVA1) supports infantry units with screening obscurants, suppressive forces and on-call supporting fires. 120mm, 81mm, and 60mm mortars provide complementary capabilities with responsive, accurate and lethal indirect fire support to the dismounted infantry assault.

Double-V-Hull A1 ECP Commander's Vehicle: The DVH A1 ECP Commander's Vehicle (CVVA1) provides the brigade commanders and infantry battalion commanders with the means to receive information and data, analyze, prepare, and transmit data, and control the forces/functions carrying out combat missions.

LI 0363G85200 - Stryker Upgrade Army

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 0363G85200 / Stryker Upgrade

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Date: March 2023

Line Item MDAP/MAIS Code: N/A

Army

Double-V-Hull A1 ECP Fire Support Vehicle: The DVH A1 ECP Fire Support Vehicle (FSVVA1) provides automated enhanced surveillance, target acquisition, target identification, target tracking, target designation, position location, and communications functionality. Targets will be transmitted instantly to the fire support system and shooter.

Double-V-Hull A1 ECP Engineer Squad Vehicle: The DVH A1 ECP Engineer Squad Vehicle (ESVVA1) provides maneuver/mobility support capabilities which include obstacle clearing, in-stride breaching of surface mines, proofing of subsurface mines, and smoke generation for local protection.

Double-V-Hull A1 ECP Medical Evacuation Vehicle: The DVH A1 ECP Medical Evacuation Vehicle (MEVVA1) is the Battalion Aid Station for brigade units, providing treatment for serious injury and advanced trauma cases

Double-V-Hull A1 ECP Antitank Guided Missile Vehicle: The DVH A1 ECP Antitank Guided Missile Vehicle (ATVVA1) is the brigade's primary tank killing system. The Antitank Guided Missile Vehicle (ATW) reinforces the brigade's infantry battalion, reinforces the brigade reconnaissance squadron, and provides long-range direct fire.

Double V Hull A1 (DVHA1) ICVVA1-30mm (formerly Medium Caliber Weapon System (MCWS)): The Stryker ICVVA1-30mm integrates a 30mm cannon onto the DVHA1 platform to provide increased lethality, capable of firing a variety of munitions designed to support mounted and dismounted elements when executing combined arms maneuver and wide area security operations. The ICVVA1-30mm provides protected transport for an infantry or cavalry squad with individual equipment.

Procuring Double-V-Hull A1 ECP Medical Evacuation Vehicles to support Terrestrial Layered System (TLS) Program for Project Manager (PM) Electronic Warfare and Cyber.

Modifications to the Stryker Family of Vehicles (FoV) are to resolve reliability, lethality, safety, operational, performance degradation, chemical detection and Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) obsolescence issues. Primary efforts involve the incorporation of fleet modifications, to include, C4ISR updates, DVH Safety and Survivability updates, and training device procurement and the retrofit of Lethality Engineering Change Proposals (ECPs) (formerly ECP 2) upgrades to enhance the suppressive fire and armored vehicle engagement capabilities of the Army's Stryker Brigade Combat Teams (SBCTs).

Training Aids, Devices, Simulators, and Simulations (TADSS): Funding provides for the integration of the Vehicle Tactical Engagement Simulation System (V-TESS) and supports the United States Army Combined Arms Support Command (CASCOM) and the requirement for the Stryker Vehicle Maintainer Training Course to support establishment of the Stryker-unique 91S Military Occupational Series (MOS). The 91S training course requires purchase of the following training devices: Diagnostic Troubleshooting Trainers (DTTs), Anti-Tank Guided Missile Vehicle Hands-On Trainers (HOTs), Full-Up Power Pack Part Task Trainers (FUPP PTTs), Mortar Carrier Hands-On Trainers (MC HOTs).

Retrofit Planning and Site Management: Funding supports kit material handling and fleet-wide retrofits for the Stryker Family of Vehicles (FoV).

Test Fleet Maintenance funding maintains the Stryker test fleet, to include contractor repair labor and operations of Stryker repair parts warehouses located at the Army's test centers.

Program management, engineering, and logistics support necessary to execute Stryker modifications to include DVH A1 ECPs. Fleet Modifications, C4I Obsolescence and Next Generation items, and Lethality ECPs.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	228	180	85	-	85	110	189	187	182
	Total Obligation Authority	1,082.828	891.171	614.282	-	614.282	654.326	865.441	816.703	860.055
Total:	Quantity	228	180	85	-	85	110	189	187	182

UNCLASSIFIED LI 0363G85200 - Stryker Upgrade

P-1 Line #4

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 0363G85200 / Stryker Upgrade

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

				FY 2024	FY 2024	FY 2024				
Secondary	/ Distribution	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028
Secondary Distribution	Total Obligation Authority	1,082.828	891.171	614.282	-	614.282	654.326	865.441	816.703	860.055

LI 0363G85200 - Stryker Upgrade Army

UNCLASSIFIED Page 3 of 17

Volume 1 - 26 P-1 Line #4

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 0363G85200 / Stryker Upgrade

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	G85200 / Stryker Upgrade	P-5a, P-21	Α		919 / 3,404.464	228 / 1,082.828	180 / 891.171	85 / 614.282	- / -	85 / 614.282
P-40	Total Gross/Weapon System Cost				919 / 3,404.464	228 / 1,082.828	180 / 891.171	85 / 614.282	- 1 -	85 / 614.282

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

Note: Stryker Modification efforts and funding in Budget Line 4, 0230GM0100 / Stryker (Mod) were realigned to Budget Line 5, 0363G85200 / Stryker Upgrade starting in FY 2021.

FY 2024 Base procurement dollars in the amount of \$614.282 million supports the following:

The production of Double V Hull A1 (DVH A1) Engineering Change Proposal (ECP) vehicles, produced using flat bottom Stryker exchange and new production build processes, providing increased electrical power, mechanical power, weight margin, and cooling. Combined with a digital backbone, the enhanced DVH A1 ECP fleet will be able to host the future network while maintaining protection and mobility characteristics.

Lethality ECPs include efforts to replace the current Remote Weapon Station with the Common Remotely Operated Weapon Station (CROWS) with under armor Javelin fire capability, integrate improved optics and targeting systems onto the Anti-Tank Guided Missile (ATGM) vehicle, incorporate the 30mm Lethality Mission Equipment Package (MEP) onto a DVH A1 platform, and integrate other capabilities into the Stryker fleet. These improvements will provide for increased under armor fire capability, target identification range, provide overmatch against peer threats and supporting infantry assault, and address obsolescence within the targeting and reconnaissance systems utilized on the Stryker Family of Vehicles (FoV).

Stryker Family of Vehicles (FoV) fleet modifications address changes to the vehicle configurations resulting from identified safety issues, performance degradation issues, obsolescence issues, Modified Table of Organization & Equipment (MTO&E) changes, or Operational Need Statements (ONS). Scheduled modifications include: Joint Chemical Agent Detector (JCAD), Vehicle Intercom, In-Vehicle Network 2 (IVN2), Energy Attenuating seats for Flat Bottom Hull (FBH) vehicles, Mortar Carrier Fire Control Computer, RMS6-L N2 Recuperator gauge, Improved Battery Box, troop heater improvements, DVH survivability and safety modifications, refresh of the Fire Support Vehicle (FSV) Mission Equipment Package (MEP) and integration of emerging technologies such as Integrated Visual Augmentation System (IVAS) and improved power solution efforts. Modifications will be conducted by field modification teams, subject to vehicle/hardware availability.

Retrofit planning and site management funding provides for kit material handling and retrofit site management to support fleet-wide retrofits of the Stryker FoV.

Training Aids, Devices, Simulations, and Simulations (TADSS) funding provides for the integration of the Vehicle Tactical Engagement Simulation System (V-TESS) and supports the United States Army Combined Arms Support Command (CASCOM) and the requirement for the Stryker Vehicle Maintainer Training Course to support establishment of the Stryker-unique 91S Military Occupational Series (MOS). The 91S training course requires purchase of the Diagnostic Troubleshooting Trainers (DTTs).

Test Fleet Maintenance maintains the Stryker test fleet, to include contractor repair labor and operation of Stryker repair parts warehouses located at the Army's test centers (Aberdeen Proving Grounds, Yuma Proving Grounds, and Electronic Proving Grounds). Maintenance is required to ensure the test fleet is positioned to support testing needs and is in the appropriate condition to ensure accurate and verifiable test results.

Development Test on Stryker In-Vehicle Network 2 modification and 30mm Lethality vehicle production testing which includes safety, performance, durability, and environmental tests.

UNCLASSIFIED Page 4 of 17

LI 0363G85200 - Stryker Upgrade Army

P-1 Line #4

	UNCLA	SOILIED		
Exhibit P-40, Budget Line Item Justification: Pl	B 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub A 2033A: Procurement of W&TCV, Army / BA 01: Tr Modification of Tracked Combat Vehicles		P-1 Line Item Nur 0363G85200 / Stry		
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Ite	ems: N/A	Other Related Program Elements: 0203735A	
Line Item MDAP/MAIS Code: N/A				
Program management, engineering, and logistics support nec Control, Communications, Computers, and Intelligence (C4I) (/H) A1 Engineering Change Proposals (ECPs), Fleet Modification	ations, Command,
In accordance with Section 1815 of the FY 2008 National Defedense missions, domestic emergency responses, and provide		em is necessary for use	by the active and reserve components of the Armed Forces f	or homeland
Army Acquisition Objective: 4,459				
The Army Acquisition Objective includes quantity requirement	ts for Stryker Brigade Combat Teams and ot	ner Army programs of re	cord which utilize the Stryker vehicle as their base platform.	

LI 0363G85200 - Stryker Upgrade Army

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20

Date: March 2023

Item Number / Title [DODIC]:

0363G85200 / Stryker Upgrade

G85200 / Stryker Upgrade

ID Code (A=Service Ready, B=Not Service Ready): A		N	IDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	919	22	180	85	-	85
Gross/Weapon System Cost (\$ in Millions)	3,404.464	1,082.82	891.171	614.282	-	614.282
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,404.464	1,082.82	891.171	614.282	-	614.282
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,404.464	1,082.82	891.171	614.282	-	614.282
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget reque	sts are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3,704.531	4,749.24	4,950.950	7,226.847	-	7,226.847

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	P	rior Years	3		FY 2022			FY 2023		FY	2024 Bas	e	FY	2024 OC	0	FY	/ 2024 Tot	.al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
lyaway Cost								,										
Recurring Cost																		
DVH A1 ECP Infantry Carrier Vehicle ^(†)	2,571.503	465	1,195.749	1,203.268	56	67.383	2,763.917	121	334.434	3,249.566	53	172.227	-	-	-	3,249.566	53	172.2
DVH A1 ECP Anti- Tank Guided Missile Veh ^(†)	2,900.696	23	66.716	2,756.750	8	22.054	-	-	-	3,818.600	5	19.093	-	-	-	3,818.600	5	19.0
DVH A1 ECP Mortar Carrier Vehicle ^(†)	2,913.427	96	279.689	2,807.174	23	64.565	3,207.350	20	64.147	3,668.500	6	22.011	-	-	-	3,668.500	6	22.0
DVH A1 ECP Fire Support Vehicle ^(†)	2,874.919	37	106.372	2,797.571	7	19.583	2,942.500	10	29.425	3,467.000	5	17.335	-	-	-	3,467.000	5	17.3
DVH A1 ECP Engineer Squad Vehicle ^(†)	2,851.875	32	91.260	2,780.625	8	22.245	3,325.600	5	16.628	3,545.400	5	17.727	-	-	-	3,545.400	5	17.7
DVH A1 ECP Commander's Vehicle ^(†)	2,730.011	87	237.511	2,724.762	21	57.220	3,153.571	14	44.150	3,549.500	6	21.297	-	-	-	3,549.500	6	21.2
DVH A1 ECP Medical Evacuation Vehicle ^(†)	2,810.792	101	283.890	2,992.900	30	89.787	3,509.700	10	35.097	3,527.200	5	17.636	-	-	-	3,527.200	5	17.6
DVH A1 30mm MCWS ^(†)	4,257.892	83	353.405	5,617.568	95	533.669	-	-	22.596	-	-	10.693	-	-	-	-	-	10.6
Program Management Support (Govt)	-	-	146.608	-	-	41.949	-	-	43.265	-	-	44.168	-	-	-	-	-	44.1

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20
P-1 Line Item Number / Title:
0363G85200 / Stryker Upgrade
Item Number / Title [DODIC]:
G85200 / Stryker Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. FY 2022 **FY 2023** FY 2024 Base **FY 2024 OCO** FY 2024 Total **Prior Years** Total Total Total Total Total Total **Unit Cost** Qtv Cost **Unit Cost** Qty Cost **Unit Cost** Qtv Cost **Unit Cost** Qtv Cost Unit Cost Qtv Cost **Unit Cost** Qtv Cost **Cost Elements** (\$ K) (Each) (\$ M) Government 1.032 Furnished Equipment 28.309 0.017 0.112 1.032 (GFE) Subtotal: Recurring Cost 2.789.509 918.472 589 854 343 219 343 219 Subtotal: Flyaway Cost 2.789.509 918.472 589.854 343.219 343.219 Hardware Cost Recurring Cost Fleet Modifications 44.610 0.269 4.864 8.468 8.468 CROWS-J ECP 50.567 71.707 63.877 63.877 ----------ATGM ECP 21.322 20.415 5.598 4.715 4.715 Subtotal: Recurring Cost 65.932 71.251 82.169 77.060 77.060 Subtotal: Hardware Cost 65.932 71.251 82.169 _ 77.060 77.060 Package Fielding Cost Recurring Cost System Fielding 26.391 49.222 226.726 57.987 57.987 Support - DVH A1 Subtotal: Recurring Cost 226.726 26.391 49.222 57.987 -57.987 Non Recurring Cost Authorized Stockage 130.104 3.565 28.572 29.173 29.173 List - DVH A1 Subtotal: Non Recurring 130.104 3.565 28.572 29.173 29.173 Cost Subtotal: Package Fielding 356.830 29.956 77.794 87.160 87.160 Cost Logistics Cost Recurring Cost Retrofit Planning and 7.053 7.353 7.912 8.390 8.390 Site Management Subtotal: Recurring Cost 7.053 7.353 -7.912 -8.390 --8.390 Subtotal: Logistics Cost 7.053 7.353 8.390 7.912 8.390 Support - Support Equipment Cost Maintenance Equipment --7.806 --0.278 --5.073 -4.351 -----4.351 Subtotal: Support - Support 7.806 0.278 5.073 4.351 4.351 Equipment Cost Support - System Engineering Cost System Engineering 118.734 31.706 59.013 37.638 37.638 Subtotal: Support - System 118.734 31.706 59.013 37.638 37.638 **Engineering Cost**

LI 0363G85200 - Stryker Upgrade Army

UNCLASSIFIED
Page 7 of 17

Wolume 1 - 30

Exhibit P-5, Cost Analysis: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2033A / 01 / 20

0363G85200 / Stryker Upgrade

G85200 / Stryker Upgrade

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	S		FY 2022			FY 2023		F	1 2024 Ba	se	F'	Y 2024 OC	0	F'	Y 2024 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Support - System Test and Ev	aluation Cost																	
Development Test and Evaluation	-	-	25.429	-	-	-	-	-	28.312	-	-	17.676	-	-	-	-	-	17.676
Test and Evaluation Support	-	-	6.295	-	-	5.835	-	-	7.678	-	-	7.586	-	-	-	-	-	7.586
Subtotal: Support - System Test and Evaluation Cost	-	-	31.724	-	-	5.835	-		35.990	_	-	25.262	-	-	-	-	-	25.262
Support - Training Cost	,									•						•		
Equipment	-	-	26.876	-	-	17.977	-	-	33.366	-	-	31.202	-	-	-	-	-	31.202
Subtotal: Support - Training Cost	-	-	26.876	-	-	17.977	-	-	33.366	-	-	31.202	-	-	-	-	-	31.202
Gross/Weapon System Cost	3,704.531	919	3,404.464	4,749.246	228	1,082.828	4,950.950	180	891.171	7,226.847	85	614.282	-	-	-	7,226.847	85	614.282

Remarks:

Stryker DVHA1 variant unit costs fluctuate annually based on the total number of DVHA1 vehicles procured and the quantities of individual variants procured as established in the DVHA1 contract range pricing.

Based on actual execution of the program FY 2022 quantities are now 248 and will be updated prior to the FY 2025 budget submission.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	228	180	85	-	85
	Total Obligation Authority	1,082.828	891.171	614.282	-	614.282
Total:	Quantity	228	180	85	-	85
Secondary Distribution	Total Obligation Authority	1,082.828	891.171	614.282	-	614.282

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

Date: March 2023

Item Number / Title [DODIC]:
0363G85200 / Stryker Upgrade

G85200 / Stryker Upgrade

J33A 1 0 1 1 20				7303G03Z00 <i>1</i> 3try	kei Opgiade			G032	.00 / Sti yk	ei obí	Jiau c	
Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issu Date
DVH A1 ECP Infantry Carrier Vehicle ^(†)		2022	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2022	Sep 2023	56	1,203.268	Υ		
DVH A1 ECP Infantry Carrier Vehicle ^(†)		2023	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2023	Sep 2024	121	2,763.917	Υ		
DVH A1 ECP Infantry Carrier Vehicle ^(†)		2024	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2024	Sep 2025	53	3,249.566	Υ		
DVH A1 ECP Anti-Tank Guided Missile Veh ^(†)		2022	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2022	Jan 2024	8	2,756.750	Υ		
DVH A1 ECP Anti-Tank Guided Missile Veh ^(†)		2024	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2024	Dec 2025	5	3,818.600	Υ		
DVH A1 ECP Mortar Carrier Vehicle ^(†)		2022	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2022	Feb 2024	23	2,807.174	Υ		
DVH A1 ECP Mortar Carrier Vehicle ^(†)		2023	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2023	Dec 2024	20	3,207.350	Υ		
DVH A1 ECP Mortar Carrier Vehicle ^(†)		2024	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2024	Jan 2026	6	3,668.500	Υ		
DVH A1 ECP Fire Support Vehicle ^(†)		2022	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2022	Sep 2023	7	2,797.571	Υ		
DVH A1 ECP Fire Support Vehicle ^(†)		2023	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2023	Sep 2024	10	2,942.500	N		
DVH A1 ECP Fire Support Vehicle ^(†)		2024	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2024	Jan 2026	5	3,467.000	Υ		
DVH A1 ECP Engineer Squad Vehicle ^(†)		2022	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2022	May 2024	8	2,780.625	Υ		
DVH A1 ECP Engineer Squad Vehicle ^(†)		2023	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2023	Sep 2024	5	3,325.600	N		
DVH A1 ECP Engineer Squad Vehicle ^(†)		2024	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2024	Oct 2025	5	3,545.400	Υ		
DVH A1 ECP Commander's Vehicle ^(†)		2022	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2022	Sep 2023	21	2,724.762	Υ		
DVH A1 ECP Commander's Vehicle ^(†)		2023	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2023	Dec 2024	14	3,153.571	Υ		
DVH A1 ECP Commander's Vehicle ^(†)		2024	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2024	Sep 2025	6	3,549.500	Υ		

LI 0363G85200 - Stryker Upgrade Army

UNCLASSIFIED
Page 9 of 17

P-1 Line #4

Exhibit P-5a, Procurement History and Planning: PB 2024	Army	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2033A / 01 / 20	0363G85200 / Stryker Upgrade	G85200 / Stryker Upgrade

	O			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
DVH A1 ECP Medical Evacuation Vehicle ^(†)		2022	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2022	Sep 2023	30	2,992.900	Y		
DVH A1 ECP Medical Evacuation Vehicle ^(†)		2023	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2023	Jan 2025	10	3,509.700	Y		
DVH A1 ECP Medical Evacuation Vehicle ^(†)		2024	GM GDLS Defense Group L.L.C. / Shelby Township	SS / FPIF	TACOM	Mar 2024	Feb 2026	5	3,527.200	Y		
DVH A1 30mm MCWS ^(†)		2022	OshKosh Defense, LLC / Oshkosh, Wisconsin	SS / Various	TACOM	Mar 2022	Sep 2023	95	5,617.568	N		

^(†) indicates the presence of a P-21

Remarks:

Based on actual execution of the program FY 2022 quantities are now 248 and will be updated prior to the FY 2025 budget submission.

Ex	(hi	ibit	t P-2	21, Pro	oducti	ion Sc	hedu	le: Pl	3 202	4 Arm	าง														Date	e: Ma	rch 20)23				
				tion / 1 / 20	Budge	et Acti	vity /	Bud	get Su	ıb Ac	tivity	:				Num / Stryl											iber / Stryk					
					lements in Each)								Fiscal Y	ear 2022	2										Fiscal Y	ear 2023						B A
						ACCEPT						-				Calendar	Year 20	22				_				Caler	ndar Year	2023				Ĺ
	М					PRIOR	BAL			_		_		Ι.		l .	Γ.	Τ.			T	_										A
0 0	F R #	F١	y s	ERVICE	PROC QTY	TO 1 OCT 2021	AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	U N	U L	U G	S E P	O C T	N O V	E C	J A N	F E B	M A R	A P R	M A Y	N N	U L	A U G	S E P	N C E
D١	/H A	1 EC	CP Infa	antry Carrie	er Vehicle					,				<u>'</u>							·	·										
Pri	ior Y	'ears	Delive	eries: 465																												
	1	202	22 AR	RMY	56	0	56						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	50
	2	202	23 AR	RMY	121	0	121																		Α -	-	-	-	-	-	-	121
	2	202	24 AF	RMY	53	0	53																									53
D١	/H A	1 EC	CP Anti	i-Tank Gu	ided Missil	le Veh																										
Pri	or Y	'ears	Delive	eries: 23	_		_									_		_	_	_						_	_					
	3	202	22 AR	RMY	8	0	8		_			_	Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
	4	202	24 AR	RMY	5	0	5																									5
D١	/H A	1 EC	CP Mor	rtar Carrie	r Vehicle																											
Pri	or Y	'ears	Delive	eries: 96																												
	5	202	22 AR	RMY	23	0	23						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
		202	23 AR	RMY	20							_													Α -	-	-	-	-	-	-	20
	5	202	24 AR	RMY	6	0	6																									6
D۱	/H A	1 EC	CP Fire	Support \	Vehicle																											
Pri	or Y			eries: 37					_											,												
	7	202	_	RMY	7	0							Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4
		202	_	RMY	10																				Α -	-	-	-	-	-	-	10
	7	202		RMY	5		5																									5
_					ad Vehicle	е																										
Pri	$\overline{}$			eries: 32	1	,	,								1	1				1	1				T		1					
	-	202	_	RMY	8	0							Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
	\vdash	202	_	RMY	5			_																	Α -	-	-	-	-	-	-	5
	-	202		RMY	5	0	5																									5
				mmander's	s Vehicle																											
Pri	_			eries: 87	1									1	_							1			1	1	1	1			-	
	\vdash	202	_	RMY	21	0	_						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	18
	-	202	_	RMY	14																				Α -	-	-	-	-	-	-	14
	11			RMY	6		6																									6
					uation Veh	nicle																										
Pri	_			eries: 101	1 -				_			-		1	1			_	1						1		1	I				
			22 AR		30			_					Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	28
	13	202	23 AR	RMY	10	0	10	_			T -	-		T .		-		T -	T -	T -		T =			A -	-	-	-	-	-	-	10
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
								Ŀ.	•		_ ·•			_ ·`		- "				<u> </u>								.,	_		•]	

LI 0363G85200 - Stryker Upgrade Army

UNCLASSIFIED
Page 11 of 17

P-1 Line #4

														UN	ICL/	ASSI	FIEC)													
E	xhi	bit F	P-21, Pr	oduct	ion Sc	hedu	le: Pl	3 202	4 Arn	ıy														Date	e: Ma	rch 20	023				
			iation / 01 / 20	Budg	et Acti	vity /	Bud	get S	ub Ac	tivity	/ :	-				nber / ker U _l												[DOI			
				lements in Each)								Fiscal `	Year 2022	2						,				Fiscal Y	ear 2023	3					В
					ACCEPT										Calenda	r Year 20	22				_				Caler	ndar Yea	r 2023				L
0 0	R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
	12	2024	ARMY	5	0	5																	<u> </u>								5
D۱	/H A	1 30mn	n MCWS																												
Pri	ior Y	ears De	eliveries: 83																												
	14	2022	ARMY	95	0	95						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	89
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Ex	thi	ibit	t P-	21, Pro	oducti	on Sc	hedu	le: PB	2024	4 Arm	ıy														Date	: Ma	rch 20	23				
				ition / I	Budge	et Acti	vity /	Budg	et Su	ıb Ac	tivity	:						Title:)								ber / Stryke					
					lements in Each)								Fiscal Y	ear 2024										ı	Fiscal Ye	ar 2025		,				B A
						ACCEPT									С	alendar `	Year 202	4								Caler	dar Year	2025				Ĺ
	M F					PRIOR TO 1	BAL DUE	o	N	D	J	F	м	А	М		J	_		_	N	D	J	F	М	Α	М	J	J	Α	s	A N
С	R #	F١	Y	SERVICE	PROC QTY	OCT 2023	AS OF 1 OCT	C T	0 V	D E C	A N	E B	A R	P R	A Y	U N	Ŭ L	A U G	S E P	O C T	0 V	E C	A N	E B	A R	P R	A Y	U N	Ü L	Û G	E P	C E
DVI	ΉΑ	1 EC	CP Infa	antry Carrie	er Vehicle						,			,					· ·					· ·						·		
Pric	or Y	'ears	Deliv	eries: 465																												
	1	202	22 A	RMY	56	6	50	6	8	9	6	5	4	5	3	1	1	2														0
	2	202	23 A	RMY	121	0	121	-	-	-	-	-	-	-	-	-	-	-	10	10	11	10	8	7	8	8	10	10	15	14		0
	2	202	24 A	RMY	53	0	53						A -	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	9	44
DVI	ΉΑ	1 EC	CP An	nti-Tank Gui	ided Missil	e Veh																										
Prio	or Y	'ears	Deliv	veries: 23																												
	3	202	22 A	RMY	8	0	8	-	-	-	2	2	3	1																		0
	4	202	24 A	RMY	5	0	5						A -	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	5
DVI	ΉΑ	1 EC	CP Mo	ortar Carrie	r Vehicle																											
Prio	or Y	'ears	Deliv	/eries: 96																												
	5	202	22 A	RMY	23	0	23	-	-	-	-	2	2	4	4	4	4	3														0
	6	202	23 A	RMY	20	0	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	2	3	3				0
	5	202	24 A	RMY	6	0	6						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
DVI	ΉΑ	1 EC	CP Fin	re Support \	Vehicle																											
Prio	or Y	'ears	Deliv	/eries: 37																												
	7	202	22 A	RMY	7	3	4	3	1																							0
	7	202	23 A	RMY	10	0	10	-	-	-	-	-	-	-	-	-	-	-	3	-	3	3	1									0
	7	202	24 A	RMY	5	0	5						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
DVI	ΉΑ	1 EC	CP En	ngineer Squ	ad Vehicle																											
Prio	or Y	'ears	Deliv	eries: 32																												
	8	202	22 A	RMY	8	0	8	-	-	-	-	-	-	-	2	3	3															0
	9	202	23 A	RMY	5	0	5	-	-	-	-	-	-	-	-	-	-	-	2	2	1											0
	9	202	24 A	RMY	5	0	5						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
DVI	ΉΑ	1 EC	CP Co	ommander's	s Vehicle																											
Pric	or Y	'ears	Deliv	veries: 87																												
-	10	202	22 A	RMY	21	3	18	4	4	4	3	2	1														. –					0
_	\rightarrow	202	23 A	RMY	14	0			-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3	3	3						0
	_	202		RMY	6		6						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4
DVI	ΉΑ	1 EC	CP Me	edical Evac	uation Veh	nicle																										
Prio	or Y	ears'	Deliv	/eries: 101																												
	12	202	22 A	RMY	30	2	28	1	1	1	3	2	3	2	3	4	4	4														0
	13	202	23 A	RMY	10	0	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	2	2	2				0
								O C	N O	D E	J A	F E	M A	A P R	M A	J	n 1	A U	S E	O C	N O	D E	J A	F E	M A R	A P R	M A Y	J	n 1	A U	S E	
								Т	V	С	N	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R	R	Y	N	L	G	Р	

LI 0363G85200 - Stryker Upgrade Army

UNCLASSIFIED
Page 13 of 17

P-1 Line #4

hib	it P	-21, Pro	oducti	on Sc	hedul	le: PE	3 202	4 Arm	у														Date	e: Ma	rch 20)23				
			Budge	et Acti	vity /	Budg	get Sı	ıb Ac	tivity	:	1																			
											Fiscal Y	ear 2024											Fiscal Y	ear 2025						В
_													C	alendar	Year 202	24								Caler	dar Year	2025				Ĺ
F	FY	SERVICE	PROC QTY	TO 1 OCT 2023	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
2 20	024	ARMY	5	0	5						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
I A1 3	30mm	MCWS																												
r Yea	ırs Del	liveries: 83																												
4 20	022	ARMY	95	6	89	6	6	6	6	6	6	6	6	6	6	9	5	5	5	5										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
					·																									-
	M F R H 12 2 H A1:	m	propriation / I 33A / 01 / 20 Cost El (Units i	Cost Elements (Units in Each) PROC	Cost Elements (Units in Each)	Propriation / Budget Activity / Budget Sub Ac	33A / 01 / 20 Cost Elements (Units in Each) M F R SERVICE QTY 2023 DUE O N D J S # FY SERVICE QTY 2023 TOCT T V C N 12 2024 ARMY 5 0 5 H A1 30mm MCWS or Years Deliveries: 83 14 2022 ARMY 95 6 89 6 6 6 6 6 6 O N D J C O E A	Propriation / Budget Activity / Budget Sub Activity:	P-1 O36 O 1 O 2 O 36 O 1 O 36 O	P-1 Line	P-1 Line Item O363G85200 /	P-1 Line Item Num 0363G85200 / Stryk	P-1 Line Item Number / 0363G85200 / Stryker Up	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade O363G85200 / Stryker Upgrade	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade O363G85200 / Stryker Upgrade	P-1 Line Item Number / Title:	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade Cost Elements (Units in Each)	P-1 Line Item Number / Title:	P-1 Line Item Number / Title: O363G85200 / Stryker Upgrade G85 G	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade G85200 / G85200 / Stryker Upgrade G85200 / G85200 / Stryker Upgrade G85200 / G	P-1 Line Item Number / Title:	P-1 Line Item Number / Title: G85200 / Stryker Upgrade G85200 / Str	P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade O85200 / O	P-1 Line Item Number / Title:	P-1 Line Item Number / Title:			

														•	. • =,		1 1LL	*													
Ех	hibi	it P	-21, Pr	oducti	on Sc	hedu	le: PE	3 202	4 Arn	าy														Date	e: Ma	rch 2	023				
A p 20	pro 33A	pri 70	ation / 1 / 20	Budge	et Acti	vity /	Budg	jet Sı	ub Ad	ctivity	' :					ber / ker Up											Title cer Up				
				Elements	,																										В
			(Units	in Each)	T				_		_	Fiscal \	ear 2026								_	1	-	Fiscal Y	ear 2027					_	Α
	м				ACCEPT PRIOR	BAL			1				1		Calendar	Year 202	26				1			1	Cale	ndar Yea	r 2027				L A
0 C 0	R	Y	SERVICE	PROC QTY	TO 1 OCT 2025	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U L	A U G	S E P	N C E
-			nfantry Carr																												
_			liveries: 465																												_
	1 20)22	ARMY	56	56	0																									0
	2 20)23	ARMY	121	121	0	1																								0
	2 20)24	ARMY	53	9	44	7	7	9	5	2	2 6	8]																	0
DV	H A1 E	CP A	Anti-Tank G	uided Missi	le Veh																										
Pri	or Year	s Del	liveries: 23																												_
	3 20)22	ARMY	8	8	0																									0
	4 20)24	ARMY	5	0	5	-	-	1	2	2	2																			0
DV	H A1 E	CP N	Mortar Carrie	er Vehicle					·																						
Pri	or Year	s Del	liveries: 96																												
	5 20)22	ARMY	23	23	0																									0
	6 20)23	ARMY	20	20	0]																								0
	5 20)24	ARMY	6	0	6	-	-	-	3	3	3																			0
DV	H A1 E	CP F	ire Support	Vehicle																											
Pri	or Year	s Del	liveries: 37																												
	7 20)22	ARMY	7	7	0																									0
	7 20)23	ARMY	10	10	0							_																		0
	7 20)24	ARMY	5	0	5	-	-	-	1	2	2 2		_																	0
DV	H A1 E	CP E	Engineer Sq	uad Vehicle	9																										
Pri	or Year	s Del	liveries: 32																												_
Ш	8 20)22	ARMY	8		0]																								0
	9 20)23	ARMY	5					,	_																					0
Ш	9 20)24	ARMY	5	0	5	2	2	1																						0
DV	H A1 E	CP C	Commander	's Vehicle																											
Pri	or Year	s Del	liveries: 87												-					_											
\vdash	_	-	ARMY	21		_	-																								0
\vdash	_	_	ARMY	14					7																						0
\vdash			ARMY	6		4	2	2																							0
_			Medical Eva		nicle																										
L			liveries: 101		1	1																									1
\vdash	_	_	ARMY	30		_	-																								0
Ш	13 20)23	ARMY	10	10	0			T _	1 .	1 -	1	1 .					I -	_		T _	1 .		1	1 .	1	1 .			-	0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
								L			1	-1			1		1	l	l	1		1		1	1		1	L			J

LI 0363G85200 - Stryker Upgrade Army

UNCLASSIFIED
Page 15 of 17

P-1 Line #4

C R FY SERVICE QTY 2025 10CT T V C N B R R Y N L G P T V C N B R R P A U U U U G F T V C N B R P Y N L G F T V C N B R R P Y N L G F T V C N B R R P Y N L G F T V C N B R R P Y N L G F T V C N B R R P Y N L G F T V C N B R R P Y N L G F T V C N B R R P Y N L G F T V C N B R R P Y N L G F T V C N B R R P Y N L G F T V C N B R R P Y N L G F T V C N B R R P Y N L G F T V C N B R R R R P Y N L G F T V C N B R R R R P Y N L G F T V C N B R R R R P Y N L G F T V C N B R R R R R P Y N L G F T V C N B R R R R R R P Y N L G F T V C N B R R R R R R R R R R R R R R R R R R	Ex	hibit	P-21, Pr	oducti	ion Sc	hedul	le: PE	3 202	4 Arm	ıy														Date	e: Ma	rch 20)23				
Calculate Fiscal Year 2026 Fiscal Year 2026 Fiscal Year 2027 Fiscal Year 2026 Fiscal Year 2027 Fiscal Year 2028 Fiscal Year 2028 Fiscal Year 2027 Fiscal Year 2028 Fiscal Year 2028	-			Budge	et Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:																				
M												Fiscal Y	ear 2026	1										Fiscal Y	ear 2027						
O F F V SERVICE OCT AS OF C O E A E A E A P A U U U U E C O E A E A P A U U U U E C O E A E A P A U U U U U E C O E A E A E A P A U U U U U E C O E A E A E A P A U U U U U U E C O E E A E E A E A P A U U U U U U E C O E E A E E A E E A E E A E E E E E E E														(Calendar	Year 202	:6								Caler	dar Year	2027				
DVH A1 30mm MCWS Prior Years Deliveries: 83 14 2022 ARMY 95 95 0 O N D J F M A M J J A S O N D J F M A M J J A S	o c	F R	SERVICE		TO 1 OCT	DUE AS OF		0	E	A	E	Α	P	Α		J U	U	E	С	0	E		E	Α	P	Α		T A C	U	S E P	
Prior Years Deliveries: 83 14 2022 ARMY 95 95 0 O N D J F M A M J J A S O N D J F M A M J J A S	ŀ	12 2024	ARMY	5	0	5	-	-	-	-	1	2	2					'													
14 2022 ARMY 95 95 0 O N D J F M A M J J A S O N D J F M A M J J A S	DVI	H A1 30m	m MCWS																												
O N D J F M A M J J A S O N D J F M A M J J A S					1																										
O	ŀ	14 2022	ARMY	95	95	0			,	,					,	,			,	,				,	,						\perp
								0		J A N		M A R		Α	J U	J L		E	С			J A N	F E B			Α	J U	U U	A U G	S E P	

Exhibit P-21, Production Schedule: PB 2024 Army Date: March 2023 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 2033A / 01 / 20 0363G85200 / Stryker Upgrade G85200 / Stryker Upgrade

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						lni	tial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2024	1-8-5 For 2024	MAX For 2024	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	11	23	6	2	11	13
2	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	13	25	6	2	11	13
3	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	11	23	6	2	11	13
4	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	13	25	6	2	11	13
5	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	11	23	6	2	11	13
6	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	13	25	6	2	11	13
7	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	11	23	6	2	11	13
8	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	11	23	6	2	11	13
9	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	13	25	6	2	11	13
10	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	11	23	6	2	11	13
11	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	13	25	6	2	11	13
12	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	11	23	6	2	11	13
13	GM GDLS Defense Group L.L.C Shelby Township	14	29	35	12	12	13	25	6	2	11	13
14	OshKosh Defense, LLC - Oshkosh, Wisconsin	14	29	35	12	5	20	25	6	2	15	17

Remarks:

Lead time for Stryker Double V Hull A1 variants is 11-13 months.

Lead time for FY 2022 Double V Hull A1 30mm Lethality is 20 months due to synchronization of the Double V Hull A1 platform and 30mm Mission Equipment Package integration.

Based on actual execution of the program FY 2022 quantities are now 248 and will be updated prior to the FY 2025 budget submission.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

UNCLASSIFIED LI 0363G85200 - Stryker Upgrade

P-1 Line #4

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

Exhibit P-40, Budget Line Item Justification: PB 2024 Army Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 1382GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready):

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	128	-	128	-	-	-	-	-	128
Gross/Weapon System Cost (\$ in Millions)	-	-	-	5.232	-	5.232	-	-	-	-	-	5.232
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	5.232	-	5.232	-	-	-	-	-	5.232
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	5.232	-	5.232	-	-	-	-	-	5.232
(The following	Resource Sum	mary rows are fo	or informational p	ourposes only. Th	e corresponding	budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	40.875	-	40.875	-	-	-	-	-	40.875

Description:

GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE is a New Start program in FY 2024.

GA3312 / M3A3 BFIST VEHICLE WITH FS3 is a new start within the BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE Budget Line in FY 2024

The Bradley Fire Support Team (BFIST) vehicle replaced the aging M981 Fire Support Vehicle used by the Fire Support Team (FIST) in the Armored Brigade Combat Teams (ABCT). The BFIST contributes to success on the battlefield by accurately locating and designating targets and then combining this information to develop and execute fire support plans. The BFIST allows fire support operations to be performed on the battlefield in vehicles with the same signature, survivability, and mobility as the other Bradley Fighting Vehicles (BFV) in the maneuver units it supports. There are 246 BFIST vehicles fielded with three variants; M7A4 BFIST, A3 BFIST with FS3 (Fire Support Sensor System), and M7 BFIST SA (Situation Awareness).

All three variants enable company Fire Support Teams (FIST) and company fire support officers to plan, coordinate and execute timely, accurate indirect artillery and mortar fires. The FS3 on all vehicles provides automated enhanced surveillance, target acquisition, target identification, target designation, target tracking, position location, and communications functionality under armor while mounted and target acquisition and designation while dismounted. All variants are being upgraded to include Fire Observer Software (FOS) on the Mounted Family of Computer System (MFoCS), TALIN 5000 Inertial Navigation Unit (INU); and Target Accuracy upgrades to meet Category I (CAT I) Target Location Error (TLE) specifications - the highest level TLE obtainable. After upgrades are completed, all BFIST vehicles will meet the Operational Requirements Document (ORD) objective requirements.

The M7 BFIST Situational Awareness (SA) is based on the Bradley M2 ODS SA (Operation Desert Storm Situational Awareness) vehicles and utilizes a Smart Display Unit (SDU) in the commander and turret stations; and has 500-amp power generation. The A3 BFIST w/FS3 is based on the Bradley M3A3 vehicle and utilizes Commanders Independent Viewer (CIV) in the commander and turret stations; and has 500-amp power generation. The M7A4 BFIST is based on the Bradley M2A4 vehicle utilizes both the Smart Display Unit (SDU) and Commanders Independent Viewer (CIV) in the commander and turret stations: an upgraded engine and 1000-amp power generation.

Secondary	/ Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	74	-	74	-	-	-	-
	Total Obligation Authority	-	-	3.039	-	3.039	-	-	-	-

UNCLASSIFIED Page 1 of 5

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 1382GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE

P-1 Line #5

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Date: March 2023

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready):

Secondar	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
ANG	Quantity	-	-	54	-	54	-	-	-	-
	Total Obligation Authority	-	-	2.193	-	2.193	-	-	-	-
Total:	Quantity	-	-	128	-	128	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	5.232	-	5.232	-	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 1382GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready):

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	GZ3312 / M3A3 BFIST VEHICLE WITH FS3				- / -	- / -	- / -	128 / 5.232	- / -	128 / 5.232
P-40	Total Gross/Weapon System Cost				- 1 -	- 1 -	- 1 -	128 / 5.232	- 1 -	128 / 5.232

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 procurement dollars in the amount of \$5.200 million support improvements to the Bradley Fire Support (BFIST) vehicle, resolves issues identified in the field through Field Problem Reports (FPR), improves safety, addresses obsolete components, develops and installs modification kits, maintains software and cyber, and updates operator/technical manuals. Current projections indicate the BFIST will remain in the Armored Brigade Combat Team (ABCT) formation until the 2050s.

The primary effort will focus on the application of field modifications to mitigate obsolescence with Fire Observer Software (FOS) on the Mounted Family of Computer System (MFoCS) and to improve Target Accuracy. The Fire Support Station and Commanders Display utilize the common Color Flat Panel Display (CFPD) which is in the process of obsolescence redesign with integration in FY 2025 and supply availability in FY 2026. Funding also supports the integration of the modernized Bradley Common Display (BCD) for all Bradley Fire Support Team (BFIST) vehicles.

GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE is a New Start program in FY 2024.

GA3312 / M3A3 BFIST VEHICLE WITH FS3 is a new start within the BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE Budget Line in FY 2024

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

> UNCLASSIFIED Page 3 of 5

							U	NCLAS	SIFIEL)								
Exhibit P-5, Cost	Analysis	s: PB 20	24 Army	,									ı	Date: N	larch 202	23		
Appropriation / B 2033A / 01 / 20	udget A	ctivity /	Budget	Sub Act	tivity:	1382		n Numbe / BRADI		: E SUPPC	ORT TEA	M (BFIS	ST) (Title [DO BFIST V	DIC]: EHICLE '	WITH
ID Code (A=Service Read	dy, B=Not Servi	ce Ready):							М	DAP/MAIS	Code:							
	Resource		arv			Prior Ye	ars	FY 20			2023	FY 2	2024 Bas	e F	Y 2024	ОСО	FY 2024	Total
Procurement Quantity (Uni		-	<i>y</i>				_		-					128		-		12
Gross/Weapon System Co		s)					-		_				5	5.232		-		5.23
Less PY Advance Procure							-		_					-		-		
Net Procurement (P-1) (\$	•	/					-						5	5.232		-		5.23
Plus CY Advance Procure		lions)					-		_					-		-		-
Total Obligation Authori	ty (\$ in Millions						-		-		-		5	5.232		-		5.23
	he following I	Resource Si	ummary row	s are for info	ormationa	al purposes onl	y. The corres	sponding bud	dget reques	ts are docume	ented elsewi	here.)						
Initial Spares (\$ in Millions)							-	, ,	-		-			-		-		
Gross/Weapon System Ur	nit Cost (\$ in 7	Thousands)					-		-		-		40).875		-		40.87
		-								1								
Note: Subtotals or Totals i	n this Exhibit	P-5 may no	ot be exact o	r sum exact	tly due to	rounding.									'			
	F	Prior Years	S		FY 202	22		FY 2023		FY	2024 Bas	e	FY	′ 2024 O	СО	F	Y 2024 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	(+.7	(====)	(+)	(+19	(====,	(+)	(+1)	(===-)	(+ 117)	(+ - 7	(====,	(+)	(4.7)	(====,	(+)	(+-7	(===:-/	(+)
Recurring Cost																		
Modification Work Order (MWO) Installation	-	-	-	-			-	-	-	-	-	1.200	-	-	-	-	-	1.20
Subtotal: Recurring Cost	-	-	-	-			-	-	-	-	-	1.200	-	-	-	-	-	1.20
Non Recurring Cost																		
Fire Support Station and Commander Display NRE	-	-	-	-			-	-	-	-	-	1.500	-	-	-	-	-	1.50
Obsolescence Mitigation	-	-	-	-			-	-	-	-	-	2.532	-	-	-	-	-	2.53
Subtotal: Non Recurring Cost	-	-	-	-			-	_	-	-	-	4.032	-	-	-	-	-	4.03
Subtotal: Flyaway Cost	-	-	-	-			-	-	-	-	-	5.232	-	-	-	-	-	5.23
Gross/Weapon System Cost	-	-	-	-			-	-	-	40.875	128	5.232	-	-	-	40.875	128	5.23
	Sec	ondary Di	stribution				FY	2022		FY 2023		FY 2			FY 2024 OCO		FY 202 Total	
Army		Qua	ntity						-		-		74	ı		-		7
		Tota	al Obligation A	uthority					-		-		3.039)		-		3.03
ANG		Qua											54					5

UNCLASSIFIED

P-1 Line #5

Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2033A / 01 / 20	1382GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST)	GZ3312 / M3A3 BFIST VEHICLE WITH
	VEHICLE	FS3
ID Code (A-Service Books B-Net Service Books):	MDAP/MAIS Code:	•

ID Code (A=Service Ready, B=Not Service Read	у).		WIDAP/WAIS COU	ə:		
Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
	Total Obligation Authority	-	-	2.193	-	2.193
Total:	Quantity	-	-	128	-	128
Secondary Distribution	Total Obligation Authority	-	=	5.232	-	5.232

P-1 Line #5

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 1678GZ2400 / Bradley Program (MOD)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

Line item widar/wais code. N/A															
	Prior			FY 2024	FY 2024	FY 2024					То				
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total			
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	6,738.018	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154	Continuing	Continuing			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	6,738.018	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154	Continuing	Continuing			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	6,738.018	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154	Continuing	Continuing			
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)							
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Thousands)	91,054.297	6,576.929	9,644.370	-	-	-	-	-	-	-	Continuing	Continuing			

Description:

The Bradley Fighting Vehicle (BFV) is a fighting vehicle platform designed to transport infantry or scouts with armor protection, while providing covering fire to suppress enemy troops and armored vehicles. The primary mission area for the Bradley Fighting Vehicle is to support the mission of the Armored Brigade Combat Team (ABCT) and the ABCT mission is to fight and win engagements and battles in support of operational and strategic national objectives. The Bradley Family of Vehicles Modification line supports 3,331 Bradley vehicles across all three variants (A4, A3, Operation Desert Storm Situational Awareness (ODS-SA)). The funding line provides for the procurement of the A4 Mobility Engineering Change Proposals (ECPs) (A4s), fleet modifications that address changes to the vehicle configurations resulting from identified safety issues, approved Engineering Change Proposals (ECPs), integration of emerging technologies, performance degradation issues, obsolescence issues, readiness, issues identified in the field and approved by the Materiel Developer and Combat Developer for fielded Bradley Family of Vehicles (FOV), and Operational Need Statements (ONS). Additionally, this line supports the personnel, engineering, design, testing, hardware procurement, fielding, and installation in support of the aforementioned items.

The Bradley Program (MOD) funding line procures upgrades to the Bradley Fighting Vehicle and procures Army Acquisition Executive (AAE) approved Engineering Change Proposals (ECPs). There are currently two Engineering Change Proposals (ECPs) in this program, Track and Suspension and the A4 Mobility. The Track and Suspension ECP improves the vehicle fleet's suspension increasing underbelly clearance and provides extended life track. The Bradley A4 Mobility ECP addresses space, weight, power, and cooling issues with an improved powertrain and electrical system enabling the Bradley to host inbound technologies from other Army Programs of Record, such as, but not limited to the Integrated Tactical Network (ITN).

Additionally, the Bradley Program (MOD) procures training systems, and other upgrades, including but not limited to high priority improvements, survivability enhancements, increased cyber requirements and required modifications to achieve A4 Full Materiel Release, and obsolescence mitigation such as the Improved Bradley Acquisition Subsystem (IBAS 2.8), Bradley Processing unit, and common displays. Additionally, this line provides modification kits for other Army programs such as the Integrated Tactical Network (ITN) and Bradley fleet obsolescence mitigation for other Army programs such as the Integrated Tactical Network (ITN).

Secondary	/ Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154
Total:	Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED Page 1 of 19

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 1678GZ2400 / Bradley Program (MOD)

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

				FY 2024	FY 2024	FY 2024				
Secondary	y Distribution	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028
Secondary Distribution	Total Obligation Authority	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 1678GZ2400 / Bradley Program (MOD)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type					Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)				
P-3a	-3a GZ2400 / Bradley Program (MOD) (Increase Performance) A					- / 460.385	- / 260.398	- / 158.274	- / -	- / 158.274
P-40	Total Gross/Weapon System Cost				- / 6,738.018	- / 460.385	- / 260.398	- / 158.274	- 1 -	- / 158.274
	Exhibits Schedule									
	Exhibits Schedule				FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Exhibits Schedule Title*	Subexhibits	ID CD	MDAP/ MAIS Code	FY 2025 Quantity / Total Cost (Each) / (\$ M)	FY 2026 Quantity / Total Cost (Each) / (\$ M)	FY 2027 Quantity / Total Cost (Each) / (\$ M)	FY 2028 Quantity / Total Cost (Each) I (\$ M)	To Complete Quantity / Total Cost (Each) I (\$ M)	Total Quantity / Total Cost (Each) I (\$ M)
		Subexhibits	1 1	MAIS	Quantity / Total Cost	Quantity / Total Cost				

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base procurement dollars in the amount of \$158.274 million supports procurement of multiple modifications to the Bradley Family of Vehicles to include upgrades to the Bradley Fire Support Team. vehicle, procurement of training devices, and procurement of safety and critical obsolescence upgrades as well as obsolescence management to identify diminishing manufacturing and material sources. Current projections indicate the Bradley Fighting Vehicle and the Bradley Fire Support Vehicle will remain in the Armored Brigade Combat Team (ABCT) formation until the 2050s.

The primary effort will focus around Mod 2 (BFVS High Priority Improvements) Improved Bradley Acquisition Subsystem (IBAS) 2.8 technology refresh hardware and spares procurement with system integration activities for the Bradley Processing Unit and Common Display and MOD 3 (Training Devices) with the procurement of A4 vehicles maintainer training devices that will be primarily fielded to Ft Benning GA.

Mod 2 (BFVS High Priority Improvements) maintains and provides improvements to the Bradley Family of Vehicles (FoV) to resolve problems identified in the field, improves safety, addresses obsolete components, develop and integrate modification kits, full material release efforts, and provides funding to maintain A3 and A4 facility vehicles, vehicle software and operators/technical manuals.

Mod 3 (Training Equipment Devices) funding supports for training device management for the Conduct of Fire Trainers (COFT), Hands on Turret Trainers (HOTT), Part Task Trainers (PTT) and Diagnostic Troubleshooting Trainers (DTT). These training devices are critical to maintaining gunnery proficiency and lowering maintenance cost.

Mod 5 (Program/Engineering Support) Program/Engineering Support includes both government & contractor program management support to oversee program planning & procurement of Engineering Change Proposals (ECPs), conversion of Bradley configurations and industrial base mitigation.

Mod 7 (BFVS Mobility Modification) funding supports continuation of Bradley A4 fielding and production testing.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program (MOD)
	•	·

ID Code (A=Service Ready, B=Not Service Ready)	MDAP/MAIS Code:											
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	6,738.018	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	6,738.018	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	6,738.018	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	are documente	ed elsewhere.)				1
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	91,054.297	6,576.929	9,644.370	-	-	-	-	-	-	-	Continuing	Continuing

Description:

MOD 2 (BFVS High Priority Improvements) - Provides funding for the components, application, and engineering support of improvements designed to resolve problems identified in the field, engineering support related to production, improve safety, integrate new equipment, develop and integrate mod kits, address obsolescence issues, and bring the vehicles into compliance with transportability and recovery requirements. Provides cyclical updates to vehicle software to incorporate obsolescence redesign, maintain software versions, and update integrated logistics products.

MOD 3 (Training Equipment Devices) - Provides funding to support procurement and fielding of Bradley Fighting Vehicle Training Aids, Devices, Simulators and Simulations (TADSS). The Bradley training base requires a technical refresh of the following systems to address obsolescence issues: M2A3/M7A3 Part Task Trainers (PTT), Crew Module Unit Recorder (CMUR) and the Bradley Common Software Library (BCSL). Production funding will also provide new A4 Turret Hands on Trainers and A3/A4 Parts Task Trainers required by the US Army Training and Doctrine Command (TRADOC) System Training Plan.

MOD 5 (Program/Engineering Support) - Program/Engineering Support includes both government & contractor program management support to oversee program planning & procurement of Engineering Change Proposals (ECPs), conversion of Bradley configurations and industrial base mitigation.

MOD 6 (BFVS Track and Suspension Modification) - Provides funding to support procurement and fielding of the Track and Suspension Engineering Change Proposals (ECP) to the Bradley Vehicle fleet. The Track and Suspension field modifications include track and suspension system upgrades that help to alleviate mobility, force protection, and system survivability deficiencies. Costs associated with kit installations are included in the funding for the prime hardware contracts.

MOD 7 (BFVS Mobility Modifications) - Provides funding to support procurement and fielding of Bradley A4 variant vehicles. In addition to vehicles, funding supports the procurement of government furnished material and fielding. The M2A4/M7A4 Bradley regain lost capability due to added weight by upgrading the power pack and drivetrain systems. The A4 improves the electrical system to enable hosting of inbound technologies from other Army Programs of Record. Costs associated with kit installations are included in the funding for the prime hardware contracts. The Army Procurement Object (APO) is 731 A4s for four Armor Brigade Combat Teams, one Army Prepositioned Stock brigade to support European Deterrence Initiative requirements and TRADOC vehicles. A4 Vehicle planned fielding of a BCT in FY2024 and manufacturing through 1QFY2025. Prior to FY 2020, 175 vehicles received the Bradley Fighting Vehicle System Mobility Modification which was funded in the Bradley Program Line (G80718). Funding for the Bradley Program Line ended in FY 2019.

MOD 10 (Survivability Enhancements) - Provides funding to support procurement and fielding of Survivability Enhancements including, but not limited to, the Underbelly Interim Solution (UBIS). UBIS increases the system survivability of the Bradley Fighting Vehicle against various threats.

Modification Acronyms listed above: Bradley Fighting Vehicle System (BFVS); Chassis Modernization and Embedded Diagnostics (CMED) kits; Inertial Navigation Unit (INU)/ Tactical Advanced Land Inertial Navigator (TALIN); and Improved Bradley Acquisition Subsystem (IBAS).

LI 1678GZ2400 - Bradley Program (MOD)

Army

F

Page 4 of 19

P-1 Line #6

Exhibit P-3a, Individual Modification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)	Modification Number / Title: GZ2400 / Bradley Program (MOD)
ID Code (1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1	MDAD/MAIC Code	·

ID Code (A=Service Read	dy, B=Not Service Ready) : A		MDAP/MAIS Code:										
Secon	dary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028			
Army	Quantity	-	-	-	-	-	-	-	-	-			
	Total Obligation Authority	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154			
Total:	Quantity	-	-	-	-	-	-	-	-	=			
Secondary Distribution	Total Obligation Authority	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154			

Exhibit P-3a, Individual Modification: PB 2024 Army Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: GZ2400 / Bradley Program (MOD)

2033A / 01 / 20 1678GZ2400 / Bradley Program (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

Models of Systems Affected: M2 & M3 Bradley Modification Type: Increase Performance Related RDT&E PEs:

Vehicle Variants

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)											
Procurement									'	'		·
Modification Item 1 of 10: Bradley Reactive Armor												
A Kits												
Recurring												
Kit Quantity	2,676 / 765.100	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	2,676 / 765.100
Subtotal: Recurring	2,676 / 765.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,676 / 765.100
Subtotal: Bradley Reactive Armor	2,676 / 765.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,676 / 765.100
Modification Item 2 of 10: BFVS High Priority Improvements		,	1	,							ı	J
A Kits												_
Recurring												_
CMED Driver Vision Upgrade	617 / 85.500	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	617 / 85.500
Reset Mods	756 / 10.500	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	756 / 10.500
INU/Talon	271 / 5.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	271 / 5.000
Heat Abatement/Cargo Hatch	2,764 / 2.870	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	2,764 / 2.870
High Priority Mods	- / 232.741	- / 35.969	- <i>l</i> 53.381	- /39.100	- 1 -	- / 39.100	- / 60.346	- / 34.896	- / 33.851	- / 35.663	Continuing	Continuing
Urban Survivability Mods	5,276 <i>I</i> 2,098.985	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	5,276 / 2,098.985
IBAS 2.8	- 1 -	143 / 51.801	- / 10.269	179 / 41.109	- 1 -	179 / 41.109	140 / 41.931	140 / 42.770	140 / 47.000	140 / 47.000	Continuing	Continuing
Subtotal: Recurring	9,684 / 2,435.596	143 / 87.770	- /63.650	179 / 80.209	- / -	179 / 80.209	140 / 102.277	140 / 77.666	140 / 80.851	140 / 82.663	Continuing	Continuing
Subtotal: BFVS High Priority Improvements	9,684 / 2,435.596	143 / 87.770	- /63.650	179 / 80.209	- / -	179 / 80.209	140 / 102.277	140 / 77.666	140 / 80.851	140 / 82.663	Continuing	Continuing
Modification Item 3 of 10: Training Equipment Devices												
A Kits												
Recurring												
Training Equipment	- / 68.310	- /3.287	- <i>l</i> 14.799	- /2.450	- 1 -	- /2.450	- 1 -	- 1 -	- /2.100	- 1 -	- 1 -	- / 90.946
Subtotal: Recurring	- /68.310	- /3.287	- /14.799	- /2.450	- / -	- /2.450	- / -	- / -	- /2.100	- / -	- / -	- /90.946
Non-Recurring		'	'	'		'						,
Hardware - Parts Task Trainer	- / 88.634	- 1 -	- 1 -	8 / 24.308	- 1 -	8 / 24.308	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	8 / 112.942
Subtotal: Non-Recurring	- /88.634	- / -	- / -	8 / 24.308	- / -	8 / 24.308	- / -	- / -	- / -	- / -	- / -	8 / 112.942
Subtotal: Training Equipment Devices	- /156.944	- /3.287	- /14.799	8 / 26.758	- / -	8 / 26.758	- / -	- / -	- /2.100	- / -	- / -	8 / 203.888

LI 1678GZ2400 - Bradley Program (MOD) Army

Exhibit P-3a, Individual Modification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title:

2033A / 01 / 20 GZ2400 / Bradley Program (MOD) GZ2400 / Bradley Program (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

Models of Systems Affected: M2 & M3 Bradley
Vehicle Veriente

Modification Type: Increase Performance
Related RDT&E PEs:

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ N										
Modification Item 4 of 10: ODS Situational Awareness			-		-	-	-	-		-		,
A Kits												
Recurring												
ODS Situational Awareness	770 / 1,199.553	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	770 / 1,199.55
IBAS Refresh	- /8.850	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /8.85
ODS-SA VEHICLE VERSION IDENTIFICATION	- / 12.500	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 12.50
Subtotal: Recurring	770 / 1,220.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	770 / 1,220.90
Subtotal: ODS Situational Awareness	770 / 1,220.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	770 / 1,220.90
Modification Item 5 of 10: Program/Engineering Support												
A Kits												
Recurring												
Government PM support	- / 222.868	- /22.115	- / 16.788	- / 11.653	- 1 -	- /11.653	- /10.099	- /10.302	- / 10.507	- /10.718	Continuing	Continuing
Contractor PM Support	- / 129.693	- /6.462	- /2.352	- /3.481	- 1 -	- /3.481	- /3.017	- /3.077	- /3.139	- /3.201	Continuing	Continuing
Subtotal: Recurring	- /352.561	- /28.577	- /19.140	- /15.134	- / -	- /15.134	- /13.116	- /13.379	- /13.646	- /13.919	Continuing	Continuing
Subtotal: Program/Engineering Support	- /352.561	- /28.577	- /19.140	- /15.134	- / -	- /15.134	- /13.116	- /13.379	- /13.646	- /13.919	Continuing	Continuing
Modification Item 6 of 10: BFVS Track and Suspension Upgrade												
A Kits												
Recurring												
BFVS ECP 1 Modification	2,943 / 534.851	401 / 73.266	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3,344 / 608.11
Subtotal: Recurring	2,943 / 534.851	401 / 73.266	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,344 / 608.11
Subtotal: BFVS Track and Suspension Upgrade	2,943 / 534.851	401 / 73.266	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,344 / 608.11
Modification Item 7 of 10: BFVS Mobility Modification												J
A Kits												•
Recurring												
BFVS A4 Modification	285 / 1,028.898	53 / 253.487	27 <i>l</i> 141.628	- / 27.188	- 1 -	- <i>I</i> 27.188	- /4.019	- / 10.599	- /3.423	- /6.434	- 1 -	365 / 1,475.67
Subtotal: Recurring	285 / 1,028.898	53 / 253.487	27 / 141.628	- /27.188	- / -	- /27.188	- /4.019	- /10.599	- /3.423	- /6.434	- / -	365 / 1,475.67
Subtotal: BFVS Mobility Modification	285 / 1,028.898	53 / 253.487	27 / 141.628	- /27.188	- / -	- /27.188	- /4.019	- /10.599	- /3.423	- /6.434	- / -	365 / 1,475.67
Modification Item 8 of 10: Conversion to M2				I								1
A Kits	-											

LI 1678GZ2400 - Bradley Program (MOD) Army

Exhibit P-3a, Individual Modification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Modification Number / Title:

2033A / 01 / 20

1678GZ2400 / Bradley Program (MOD)

GZ2400 / Bradley Program (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Models of Systems Affected: M2 & M3 Bradley

Modification Type: Increase Performance

Related RDT&E PEs:

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Recurring												
Conversion M3-M2	195 / 132.245	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	195 / 132.245
Fielding	- /5.942	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /5.942
Subtotal: Recurring	195 / 138.187	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	195 / 138.18
Subtotal: Conversion to M2	195 / 138.187	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	195 / 138.187
Modification Item 9 of 10: Braking Safety/ Transmission Industrial Base												,
A Kits												
Recurring												
Transmission	266 / 87.834	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	266 / 87.834
Subtotal: Recurring	266 / 87.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	266 / 87.83
Subtotal: Braking Safety/Transmission Industrial Base	266 / 87.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	266 / 87.83
Modification Item 10 of 10: Survivability Enhancements												
B Kits												
Recurring												
Underbelly Interium Solution (UBIS)	600 / 17.144	- / 0.227	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	600 / 17.371
Subtotal: Recurring	600 / 17.144	- /0.227	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	600 / 17.371
Subtotal: Survivability Enhancements	600 / 17.144	- /0.227	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	600 / 17.37
Subtotal: Procurement, All Modification Items	17,419 / 6,738.018	597 / 446.614	27 / 239.217	187 / 149.289	- / -	187 / 149.289	140 / 119.412	140 / 101.644	140 / 100.020	140 / 103.016	Continuing	Continuing
Installation						·	·			·	·	<u> </u>
Modification Item 2 of 10: BFVS High Priority Improvements	9,684 / -	143 / 0.954	- 1 -	179 / 1.052	- 1 -	179 / 1.052	140 / 1.071	140 / 1.094	140 / 1.116	140 / 1.138	- 1 -	10,566 / 6.425
Modification Item 3 of 10: Training Equipment Devices	- 1 -	- 1 -	- 1 -	8/ -	- 1 -	8/ -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	8/ -
Modification Item 6 of 10: BFVS Track and Suspension Upgrade	2,943 / -	401 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3,344 / -
Modification Item 7 of 10: BFVS Mobility Modification	285 / -	53 / 12.817	27 / 21.181	- 17.933	- 1 -	- 17.933	- /9.424	- 1 -	- 1 -	- 1 -	- 1 -	365 / 51.355
Modification Item 8 of 10: Conversion to M2	195 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	195 / -
Modification Item 10 of 10: Survivability Enhancements	- 1 -	88 / -	352 / -	160 / -	- 1 -	160 / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	600 / -
Subtotal: Installation	13.107/ -	685 / 13.771	379 / 21.181	347 / 8.985	- / -	347 / 8.985	140 / 10.495	140 / 1.094	140 / 1.116	140 / 1.138	- / -	15,078 / 57.780

LI 1678GZ2400 - Bradley Program (MOD) Army

Total

UNCLASSIFIED
Page 8 of 19

P-1 Line #6

Exhibit P-3a, Individual Modification: PB 2024 ArmyDate: March 2023Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:
1678GZ2400 / Bradley Program (MOD)Modification Number / Title:
GZ2400 / Bradley Program (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

Models of Systems Affected: M2 & M3 BradleyModification Type: Increase PerformanceRelated RDT&E PEs:

Vehicle Variants

P	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) I otal Cost (\$ M)	Qty (Each) I Total Cost (\$ M)										
Total Cost (Procurement + Support + Installation)	6,738.018	460.385	260.398	158.274	-	158.274	129.907	102.738	101.136	104.154	Continuing	Continuing

			UNCI	LASSIFIED								
xhibit P-3a, Indivi	dual Modification: P	B 2024 Army				Date: March 2023						
Appropriation / Bud 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu 1678GZ2400 / Br	imber / Title: adley Program (MOD)		Modification Number / Title: GZ2400 / Bradley Program (MOD)						
Code (A=Service Ready,	B=Not Service Ready) : A			MDAP/MAIS Co	ode:							
odification Item 1 of 1	0: Bradley Reactive Armor			<u> </u>								
anufacturer Information	on											
anufacturer Name: Ger	neral Dynamics Armament	&Technical Products (GD	ATP)	Manufacturer Location: Burlington, VT								
dministrative Leadtime	(in Months):			Production Leadtime (in Months):								
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028					
ontract Dates												
elivery Dates												
stallation Information												
	ion (Organic): Contractor				Installation	Quantity: ()						

Exhibit P-3a, Individual Modification: PB 2024 ArmyDate: March 2023Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:Modification Number / Title:2033A / 01 / 201678GZ2400 / Bradley Program (MOD)GZ2400 / Bradley Program (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

Modification Item 2 of 10: BFVS High Priority Improvements

Manufacturer Information

Manufacturer Name: Vario	ous			Manufacturer Location: Va	Manufacturer Location: Various							
Administrative Leadtime (i	in Months): 5			Production Leadtime (in M	fonths): 12							
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028					

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023	Mar 2024	Mar 2025			
Delivery Dates	Mar 2023	Mar 2024	Mar 2025	Mar 2026			

Installation Information

Method of Implementation: Contractor

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	9,684 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	9,684 / 0.000
FY 2022	- 1 -	143 / 0.954	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	143 / 0.954
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	- 1 -	- 1 -	- 1 -	179 / 1.052	- 1 -	179 / 1.052	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	179 / 1.052
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	140 / 1.071	- 1 -	- 1 -	- 1 -	- 1 -	140 / 1.071
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	140 / 1.094	- 1 -	- 1 -	- 1 -	140 / 1.094
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	140 / 1.116	- 1 -	- 1 -	140 / 1.116
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	140 / 1.138	- 1 -	140 / 1.138
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	9,684 / 0.000	143 / 0.954	- 1 -	179 / 1.052	- 1 -	179 / 1.052	140 / 1.071	140 / 1.094	140 / 1.116	140 / 1.138	- 1 -	10,566 / 6.425

Installation Schedule

			FY 2	2022			FY 2	2023		-	FY 2	024			FY 2	2025			FY 2	2026			FY 2	2027			FY 2	028			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	9,684	-	-	-	-	143	-	-	-	179	-	-	-	140	-	-	-	140	-	-	-	140	-	-	-	140	-	-	-	-	10,566
Out	9,684	-	-	-	-	-	-	-	-	36	36	36	35	45	45	45	44	35	35	35	35	35	35	35	35	35	35	35	35	140	10,566

P-1 Line #6

Exhibit P-3a, Individual Modification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20

P-1 Line Item Number / Title:

1678GZ2400 / Bradley Program (MOD)

Date: March 2023

Modification Number / Title:

GZ2400 / Bradley Program (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

Modification Item 3 of 10: Training Equipment Devices

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 12

	<u> </u>			· ·			
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Apr 2022	Apr 2023					
Delivery Dates	Apr 2023	Apr 2024					

Installation Information

Method of Implementation: Contractor

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2025	- 1 -	- 1 -	- 1 -	8 / 0.000	- 1 -	8 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	8 / 0.000
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	8 / 0.000	- 1 -	8 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	8 / 0.000

Installation Schedule

			FY 2	2022			FY 2	2023			FY 2	2024			FY 2	2025			FY 2	2026			FY 2	2027			FY 2	2028			
	PYS	Q1	Q2	Q3	Q4	тс	Tot																								
In	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

xhibit P-3a, Indivi	dual Modification: P	B 2024 Army				Date: March 2023	
ppropriation / Bud 033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu 1678GZ2400 / Br	mber / Title: adley Program (MOD)		Modification Number GZ2400 / Bradley Pr	
Code (A=Service Ready, I	B=Not Service Ready): A		1	MDAP/MAIS Co	ode:	'	
odification Item 4 of 1	0: ODS Situational Awaren	ness					
anufacturer Information	on						
anufacturer Name: BAE				Manufacturer Location: YC	ORK, PA		
Iministrative Leadtime ((in Months):			Production Leadtime (in M	fonths):		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
ontract Dates							
elivery Dates							
stallation Information							
	ion (Organic): Contractor				Installation 0	Quantity: 0	
					•		

LI 1678GZ2400 - Bradley Program (MOD) Army

			UNCL	ASSIFIED			
Exhibit P-3a, Individ	dual Modification: PE	3 2024 Army				Date: March 2023	
Appropriation / Buo 2033A / 01 / 20	lget Activity / Budge	t Sub Activity:	P-1 Line Item Nu 1678GZ2400 / Bra	mber / Title: adley Program (MOD)		Modification Number GZ2400 / Bradley Pr	
ID Code (A=Service Ready, E	B=Not Service Ready): A			MDAP/MAIS Co	ode:		
Modification Item 5 of 10	0: Program/Engineering Տսլ	pport					
Manufacturer Information	n						
Manufacturer Name: N/A				Manufacturer Location: W/	ARREN, MI		
Administrative Leadtime (in Months): 2			Production Leadtime (in M	onths): 1		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024			
Delivery Dates	Jan 2022	Jan 2023	Jan 2024	Jan 2025			
Installation Information							
Mathad of Implementation	on (Organic): x				Installation (Quantity: 0	

Exhibit P-3a, Individual Modification: PB 2024 ArmyDate: March 2023Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:Modification Number / Title:

2033A / 01 / 20 1678GZ2400 / Bradley Program (MOD)

MDAP/MAIS Code:

Modification Item 6 of 10: BFVS Track and Suspension Upgrade

Manufacturer Information

·	E\/ 0000	E)/ 0000	E)/ 000 /	E)/ 000E	E)/ 0000	E)/ 000E	EV 0000
Administrative Leadtime (in Months):			Production Leadtime (in N	Months): 13		
Manufacturer Name: Loc	Performance Products Inc,	Other (Manufacturer Location: Va	arious		

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021						
Delivery Dates	Jan 2023						

Installation Information

Method of Implementation: Contractor

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	2,115 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	2,115 / 0.000
FY 2022	414 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	414 / 0.000
FY 2023	414 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	414 / 0.000
FY 2024	- 1 -	401 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	401 / 0.000
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	2,943 / 0.000	401 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3,344 / 0.000

Installation Schedule

Army

LI 1678GZ2400 - Bradley Program (MOD)

			FY 2	022			FY 2	2023			FY 2	024			FY 2	2025			FY 2	2026			FY 2	2027			FY 2	028			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	2,943	401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,344
Out	2,219	104	103	103	104	104	103	103	100	100	100	101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,344

GZ2400 / Bradley Program (MOD)

Exhibit P-3a, Individual Modification: PB 2024 Army Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: GZ2400 / Bradley Program (MOD)

2033A / 01 / 20 1678GZ2400 / Bradley Program (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

Modification Item 7 of 10: BFVS Mobility Modification

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: York, PA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

· ·	<u> </u>				,		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	May 2022	May 2023					
Delivery Dates	Nov 2023	Nov 2024					

Installation Information

Method of Implementation: Contractor

mounda or impromonitation contacts												
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	187 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	187 / 0.000
FY 2022	98 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	98 / 0.000
FY 2023	- 1 -	53 / 12.817	27 / 21.181	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	80 / 33.998
FY 2024	- 1 -	- 1 -	- 1 -	0 / 7.933	- 1 -	0/7.933	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	0 / 7.933
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	0 / 9.424	- 1 -	- 1 -	- 1 -	- 1 -	0 / 9.424
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	285 / 0.000	53 / 12.817	27 / 21.181	0 / 7.933	- 1 -	0 / 7.933	0 / 9.424	- 1 -	- 1 -	- 1 -	- 1 -	365 / 51.355

Installation Schedule

			FY 2	2022		,	FY 2	2023			FY 2	024			FY 2	2025			FY 2	2026	_		FY 2	2027			FY 2	2028			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	180	19	46	27	6	7	6	15	21	21	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	365
Out	163	-	-	-	17	19	46	27	6	7	6	15	21	21	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	365

Exhibit P-3a, Indiv	vidual Modification: P	B 2024 Army				Date: March 2023	
Appropriation / Bu 2033A / 01 / 20	udget Activity / Budge	et Sub Activity:	P-1 Line Item Nu 1678GZ2400 / Br	mber / Title: adley Program (MOD)		Modification Numb	
ID Code (A=Service Ready	, B=Not Service Ready): A		•	MDAP/MAIS O	Code:	•	
Modification Item 8 of	10: Conversion to M2			,			
Manufacturer Informat	tion						
Manufacturer Name: BA	ΛE			Manufacturer Location: \	ORK, PA		
Administrative Leadtime	e (in Months):			Production Leadtime (in	Months):		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	195 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	195 / 0.000
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	195 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	195 / 0.000

Installation Schedule

			FY 2	2022			FY 2	2023			FY 2	2024	_		FY 2	2025	-		FY	2026			FY 2	2027			FY 2	2028	-		
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot												
In	195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	195
Out	195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	195

P-1 Line #6

xhibit P-3a, Indivi	dual Modification: F	PB 2024 Army				Date: March 2023	
ppropriation / Bud 033A / 01 / 20	dget Activity / Budg	et Sub Activity:	P-1 Line Item Nu 1678GZ2400 / Bra	mber / Title: adley Program (MOD)		Modification Number GZ2400 / Bradley Pro	
Code (A=Service Ready, I	B=Not Service Ready) : A			MDAP/MAIS Co	de:		
odification Item 9 of 1	0: Braking Safety/Transmi	ssion Industrial Base					
anufacturer Information	on						
nufacturer Name: L3C	OM			Manufacturer Location: MU	JSKEGON, MI		
Iministrative Leadtime ((in Months):			Production Leadtime (in M	onths):		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
ontract Dates							
elivery Dates							
stallation Information							
	ion (Organic): Contractor				Installation (Quantity: 0	
					•		

LI 1678GZ2400 - Bradley Program (MOD) Army

Exhibit P-3a, Individual Modification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20

P-1 Line Item Number / Title:

1678GZ2400 / Bradley Program (MOD)

Date: March 2023

Modification Number / Title:

GZ2400 / Bradley Program (MOD)

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

Modification Item 10 of 10: Survivability Enhancements

Manufacturer Information

Manufacturer Name: TBD

Administrative Leadtime (in Months): 10

Manufacturer Location: TBD

Production Leadtime (in Months): 6

 Dates
 FY 2022
 FY 2023
 FY 2024
 FY 2025
 FY 2026
 FY 2027
 FY 2028

 Contract Dates
 Delivery Dates
 On the contract Dates

Installation Information

Method of Implementation: Unit (Unit incurs installation cost)

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	- 1 -	88 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	88 / 0.000
FY 2023	- 1 -	- 1 -	352 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	352 / 0.000
FY 2024	- 1 -	- 1 -	- 1 -	160 / 0.000	- 1 -	160 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	160 / 0.000
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	88 / 0.000	352 / 0.000	160 / 0.000	- 1 -	160 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	600 / 0.000

Installation Schedule

			FY 2	2022			FY 2	2023			FY 2	2024			FY 2	2025	_		FY 2	2026			FY 2	2027			FY 2	2028			
	PYS	Q1	Q2	Q3	Q4	тс	Tot																								
In	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600
Out	-	-	-	-	88	88	88	88	88	88	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600

P-1 Line #6

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV. Army / BA 01: Tracked Combat Vehicles / BSA 20: 2072GA0400 / M109 FOV Modifications

Modification of Tracked Combat Vehicles

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): B

Program Elements for Code B Items: 0604854A Other Related Program Elements: 0604854A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,198.238	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-	-	2,386.634
Less PY Advance Procurement (\$ in Millions)	16.321	-	-	-	-	-	-	-	-	-	-	16.321
Net Procurement (P-1) (\$ in Millions)	2,181.917	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-	-	2,370.313
Plus CY Advance Procurement (\$ in Millions)	16.321	-	-	-	-	-	-	-	-	-	-	16.321
Total Obligation Authority (\$ in Millions)	2,198.238	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-	-	2,386.634
(The following	Resource Sumr	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding line is a key enabler of the Army Modernization Priorities in support of the Long-Range Precision Fires.

The M109 Family of Vehicles (FOV) Modifications line consists of the M109A6 Paladin Self-Propelled Howitzer (SPH) and the M992A2 Field Artillery Ammunition Supply Vehicle (FAASV), the M109A7 Self-Propelled Howitzer (SPH) and M992A3 Carrier, Ammunition, Tracked (CAT). The funding profile provides for the engineering design, testing, hardware procurement, and application in support of improvements to resolve problems identified in the field and approved by the Materiel Developer and Combat Developer for fielded M109 Family of Vehicles (FOV). These improvements address maintaining operational readiness rates, improving vehicle safety and operation, and integrate new equipment. Funding also supports aspects of program management necessary to support the fielded fleet of Self-Propelled Howitzers (SPHs) and Field Artillery Ammunition Supply Vehicles (FAASVs) / Carrier, Ammunition, Tracked (CATs) in 16 Active Duty Army and National Guard Battalions organic to Armored Brigade Combat Team (ABCT); 10 Battalions organic to Army Fires Brigades: 3 Rotational unit sets: 4 Army Prepositioned Stock sets: 2 Institutional Training Sites, 2 Combat Training Centers, and other facility vehicles for System Technical Support (STS) work for development and qualification of proposed engineering changes and technical improvements. Engineering Change Proposals (ECPs) will be applied through a modification work order and procured for the M109 Family of Vehicles.

Secondary	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-

UNCLASSIFIED Page 1 of 21

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV. Army / BA 01: Tracked Combat Vehicles / BSA 20: 2072GA0400 / M109 FOV Modifications

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): B

Program Elements for Code B Items: 0604854A

Other Related Program Elements: 0604854A

Date: March 2023

Line Item MDAP/MAIS Code: N/A

	Exhibits Schedule		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	GA0400 / M109 FOV Modifications (Increase Performance)		В		- / 2,198.238	- / 0.333	- /3.028	- / 90.986	- / -	- / 90.986
P-40	Total Gross/Weapon System Cost	-			- / 2,198.238	- / 0.333	- /3.028	- / 90.986	- 1 -	- / 90.986
	Exhibits Schedule				FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Exhibits Schedule Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I (\$ M)	FY 2026 Quantity / Total Cost (Each) I (\$ M)	FY 2027 Quantity / Total Cost (Each) I (\$ M)	FY 2028 Quantity / Total Cost (Each) I (\$ M)	To Complete Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)
		Subexhibits	1 1	MAIS	Quantity / Total Cost	Quantity / Total Cost	Quantity / Total Cost	Quantity / Total Cost	Quantity / Total Cost	Quantity / Total Cost

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 base procurement funding in the amount of \$90.986 million supports M109 Family of Vehicles (FOV) modifications, program office requirements and Systems Technical Support (STS) contractor support for the Self-Propelled Family of Howitzers. Program management is for the oversight of Other Governmental Agencies (OGAs) that provide material support to the system and the fielded units to ensure configuration management; provides the analysis and root cause of safety and non-safety related field failures; provides M109 Family of Vehicles (FOV) Depot Overhaul support as needed; provides planning and execution for obsolescence of parts, sub-systems and systems; develop and coordinate shrinking supply base mitigation strategies with item managers. The program office works to lower operation and sustainment costs and improve unit readiness by analyzing data and determining solutions to solve the field's problem sets. Manages the Systems Technical Support/Sustainment Systems Technical Support (STS/SSTS) contract that provides direct support to the program and the field. Contractor provides the direct engineering support required to integrate modification kits; provides the logistical support to provision. source, and support the field with material solutions/changes. Contractor also updates/corrects all system technical data, provisioning data, technical manuals, and Interactive-Electronic Technical Manuals (IETMs). Contractor provides emergency field support to the Government as required for essential mission accomplishment.

A portion of this funding line is a key enabler of the Army Modernization Priorities in support of the Long-Range Precision Fires.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

UNCLASSIFIED

Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:Modification Number / Title:2033A / 01 / 202072GA0400 / M109 FOV ModificationsGA0400 / M109 FOV Modifications	Exhibit P-3a, Individual Modification: PB 2024 Army	Date: March 2023
	1	

ID Code (A=Service Ready, B=Not Service Ready)									MDAP/MAIS Code:						
	Prior			FY 2024	FY 2024	FY 2024					То				
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total			
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	2,198.238	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-	-	2,386.634			
Less PY Advance Procurement (\$ in Millions)	16.321	-	-	-	-	-	-	-	-	-	-	16.321			
Net Procurement (P-1) (\$ in Millions)	2,181.917	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-	-	2,370.313			
Plus CY Advance Procurement (\$ in Millions)	16.321	-	-	-	-	-	-	-	-	-	-	16.321			
Total Obligation Authority (\$ in Millions)	2,198.238	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-	-	2,386.634			
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	p budget request	s are documente	d elsewhere.)			<u> </u>				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-			

Description:

M109 Family of Vehicles (FOV) Program Office [MOD 1]: Government System Engineering and Program Management support for the M109 Family of Vehicles (FOV) program.

Interior Blast Mitigation Retrofit Hardware/Fielding (M109A7) [MOD 3]: Procures and installs improved floor mat and ammo restraints to prevent those objects from becoming secondary projectiles in an underbody blast event.

Chief of Section protection (Increment I) Hardware and Fielding [MOD 4]: Ballistic riser with transparent armor, is intended to improve the situational awareness and personnel survivability when firing the crewserved weapon of the current systems in fielded Fires Battalions. These fixes also address shortcomings in training identified in Initial Operational Testing related to "combat only" configurations.

Ventilation System Dust Cover [MOD 5]: Procure/retrofit hardware to integrate pre-filtration design that reduces frequency of ventilation system clogging.

Self-Propelled Howitzer (SPH) Crew Compartment Automated Fire Extinguishing System (AFES) Retrofit Hardware & Fielding [MOD 6]: Procure/retrofit hardware to expand to full crew compartment coverage from personnel heater coverage.

Self-Propelled Howitzer (SPH) Rearview Camera Hardware [MOD 7]: Provide the vehicle operators with live video feed of the rear of the vehicle to aid in maneuver and provide situational awareness.

Driver's Seatbelt Redesign Hardware [MOD 8]: Correcting issues associated with the Driver's Seatbelt and related components that comprise the seatbelt restraint system.

Floor Drainage Hardware [MOD 9]: Correct issues with standing, dirty liquids held inside the Self-Propelled Howitzer (SPH) and CAT vehicles by providing proper drainage of standing water, mud and solvents thus alleviating slippery floors and damage to equipment stored inside the vehicles.

Carrier, Ammunition, Tracked (CAT) Tanker Bar/Crowbar Stowage HW [MOD 10]: Improve the Carrier, Ammunition, Tracked (CAT) tanker/crowbar stowage retention.

Inadvertent Automated Fire Extinguishing System (AFES) Sealed Soldered Switch Hardware [MOD 11]: Release a sealed solder switch in order to reduce the susceptibly to resistive shorting during wash-down which leads to inadvertent discharges of Automated Fire Extinguishing System (AFES).

VanAxiel Fan Hardware [MOD 12]: Replace the current ventilation system motor, fitted with carbon-brushes, with a new brush-less electric motor. The proposed new fan and motor assembly will serve to lower the noise level to an acceptable level and comply with requirements.

UNCLASSIFIED

P-1 Line #7

Exhibit P-3a, Individual Modification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Modification Number / Title:
2033A / 01 / 20	2072GA0400 / M109 FOV Modifications	GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready): B

Fielding Hardware [MOD 13]: United States Government (USG) Program Management (PM) and fielding support funding is required in order to execute Modification Work Orders (MWOs) as part of the Life Cycle Management of the M109 Family of Vehicles (FOV) fleet; ensure the fleet is supported - equipment readiness.

Secondary	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.333	3.028	90.986	-	90.986	47.688	46.361	-	-

Date: March 2023 Exhibit P-3a, Individual Modification: PB 2024 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: 2033A / 01 / 20 2072GA0400 / M109 FOV Modifications GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready) : B MDAP/MAIS Code:

Models of Systems Affected: M109 Howitzer and Modification Type: Increase Performance Related RDT&E PEs:

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
rocurement												
Modification Item 1 of 13: M109 Family of Vehicles Program Office												
A Kits												
Recurring												
Program Management (PM) Support	- / 18.192	- / 0.333	- / 0.368	- /1.052	- 1 -	- / 1.052	- /1.294	- /1.093	- 1 -	- 1 -	- 1 -	- / 22.33
Subtotal: Recurring	- /18.192	- /0.333	- /0.368	- /1.052	- / -	- /1.052	- /1.294	- /1.093	- / -	- / -	- / -	- / 22.33
Subtotal: M109 Family of Vehicles Program Office	- /18.192	- /0.333	- /0.368	- /1.052	- / -	- /1.052	- /1.294	- /1.093	- / -	- / -	- / -	- /22.33
Modification Item 2 of 13: Prior Years Closed Modifications										ı		
A Kits												
Recurring												
Prior Closed Modifications	- /2,174.482	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /2,174.48
Subtotal: Recurring	- /2,174.482	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2,174.48
Subtotal: Prior Years Closed Modifications	- /2,174.482	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2,174.48
Modification Item 3 of 13: Interior Blast Mitigation Retrofit Hardware/Fielding (M109A7)						1				ı		
A Kits												
Recurring												
Hardware	- 1 -	- 1 -	347 / 1.860	800 / 4.535	- 1 -	800 / 4.535	600 / 3.469	245 / 1.060	- 1 -	- 1 -	- 1 -	1,992 / 10.92
Subtotal: Recurring	- / -	- / -	347 / 1.860	800 / 4.535	- / -	800 / 4.535	600 / 3.469	245 / 1.060	- / -	- / -	- / -	1,992 / 10.92
Non-Recurring						•	'	'				
Hardware	- /5.564	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /5.56
Subtotal: Non-Recurring	- /5.564	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /5.56
Subtotal: Interior Blast Mitigation Retrofit Hardware/ Fielding (M109A7)	- /5.564	- / -	347 / 1.860	800 / 4.535	- / -	800 / 4.535	600 / 3.469	245 / 1.060	- / -	- / -	- / -	1,992 / 16.48
Modification Item 4 of 13: Chief of Section Protection (Inc. I) Hardware Fielding		-				1	,	,		1	1	
A Kits												
Non-Recurring												
Hardware	- 1 -	- 1 -	- 1 -	296 / 72.484	- 1 -	296 / 72.484	124 / 30.972	50 / 12.739	- 1 -	- 1 -	- 1 -	470 / 116.19
Subtotal: Non-Recurring	- / -	- / -	- / -	296 / 72.484	- / -	296 / 72.484	124 / 30.972	50 / 12.739	- / -	- / -	- / -	470 / 116.19

LI 2072GA0400 - M109 FOV Modifications Army

UNCLASSIFIED Page 5 of 21

Exhibit P-3a, Individual Modification: PB 2024 Army Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: 2033A / 01 / 20 2072GA0400 / M109 FOV Modifications GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready) : B MDAP/MAIS Code:

Models of Systems Affected: M109 Howitzer and M992 FAASV/CAT Vehicles Modification Type: Increase Performance Related RDT&E PEs:

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)											
Subtotal: Chief of Section Protection (Inc. I) Hardware Fielding	- / -	- / -	- / -	296 / 72.484	- / -	296 / 72.484	124 / 30.972	50 / 12.739	- / -	- / -	- / -	470 / 116.195
Modification Item 5 of 13: Ventilation System Dust Cover												
B Kits												
Recurring												
Hardware	- 1 -	- 1 -	- 1 -	200 / 2.748	- 1 -	200 / 2.748	155 / 2.172	- 1 -	- 1 -	- 1 -	- 1 -	355 / 4.920
Subtotal: Recurring	- / -	- / -	- / -	200 / 2.748	- / -	200 / 2.748	155 / 2.172	- / -	- / -	- / -	- / -	355 / 4.920
Subtotal: Ventilation System Dust Cover	- / -	- / -	- / -	200 / 2.748	- / -	200 / 2.748	155 / 2.172	- / -	- / -	- / -	- / -	355 / 4.920
Modification Item 6 of 13: Self-Propelled Howitzer Crew Compartment Automated Fire Extinguishing System Hardware and Fielding												
A Kits												
Non-Recurring												
SPH Crew Compartment AFES Retrofit HW	- 1 -	- 1 -	20 / 0.800	200 / 8.254	- 1 -	200 / 8.254	186 / 7.830	- 1 -	- 1 -	- 1 -	- 1 -	406 / 16.884
Subtotal: Non-Recurring	- / -	- / -	20 / 0.800	200 / 8.254	- / -	200 / 8.254	186 / 7.830	- / -	- / -	- / -	- / -	406 / 16.884
Subtotal: Self-Propelled Howitzer Crew Compartment Automated Fire Extinguishing System Hardware and Fielding	- / -	- / -	20 / 0.800	200 / 8.254	- / -	200 / 8.254	186 / 7.830	- / -	- / -	- / -	- / -	406 / 16.884
Modification Item 7 of 13: Self-Propelled Howitzer Rearview Camera Hardware											,	
A Kits												
Non-Recurring												
SPH Rearview Camera HW	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	211 / 5.514	- 1 -	- 1 -	- 1 -	211 / 5.514
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	211 / 5.514	- / -	- / -	- / -	211 / 5.514
Subtotal: Self-Propelled Howitzer Rearview Camera Hardware	- / -	- / -	- / -	- / -	- / -	- / -	- / -	211 / 5.514	- / -	- / -	- / -	211 / 5.514
Modification Item 8 of 13: Driver's Seatbelt Redesign Hardware												
A Kits												
Non-Recurring												
Driver's Seatbelt Redesign HW	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	469 / 2.165	- 1 -	- 1 -	- 1 -	469 / 2.165
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	469 / 2.165	- / -	- / -	- / -	469 / 2.165

LI 2072GA0400 - M109 FOV Modifications Army

UNCLASSIFIED

Volume 1 - 70 P-1 Line #7

Exhibit P-3a, Individual Modification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20
P-1 Line Item Number / Title:
2072GA0400 / M109 FOV Modifications
Modification Number / Title:
GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready): B

Models of Systems Affected: M109 Howitzer and Modification Type: Increase Performance Related RDT&E PEs:

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Subtotal: Driver's Seatbelt Redesign Hardware	- / -	- / -	- / -	- / -	- / -	- / -	- / -	469 / 2.165	- / -	- / -	- / -	469 / 2.16
Modification Item 9 of 13: Floor Drainage Hardware												J
A Kits												
Non-Recurring		-										
Driver's Seatbelt Redesign HW	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	467 / 12.917	- 1 -	- 1 -	- 1 -	467 / 12.91
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	467 / 12.917	- / -	- / -	- / -	467 / 12.91
Subtotal: Floor Drainage Hardware	- / -	- / -	- / -	- / -	- / -	- / -	- / -	467 / 12.917	- / -	- / -	- / -	467 / 12.91
Modification Item 10 of 13: Carrier, Ammunition, Tracked Tanker Bar/Crowbar Stowage Hardware												
A Kits												
Non-Recurring												
CAT Tanker Bar/Crowbar Stowage HW	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	229 / 2.534	- 1 -	- 1 -	- 1 -	229 / 2.53
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	229 / 2.534	- / -	- / -	- / -	229 / 2.53
Subtotal: Carrier, Ammunition, Tracked Tanker Bar/ Crowbar Stowage Hardware	- / -	- / -	- / -	- / -	- / -	- / -	- / -	229 / 2.534	- / -	- / -	- / -	229 / 2.53
Modification Item 11 of 13: Inadvertent Automated Fire Extinguishing System (AFES) Sealed Soldered Switch Hardware	е											
A Kits												
Non-Recurring												
Inadvertent AFES Sealed Soldered Switch	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	469 / 0.018	- 1 -	- 1 -	- 1 -	469 / 0.01
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	469 / 0.018	- / -	- / -	- / -	469 / 0.01
Subtotal: Inadvertent Automated Fire Extinguishing System (AFES) Sealed Soldered Switch Hardware	- / -	- / -	- / -	- / -	- / -	- / -	- / -	469 / 0.018	- / -	- / -	- / -	469 / 0.01
Modification Item 12 of 13: VanAxiel Fan Hardware												,
A Kits												
Non-Recurring												-
VanAxiel Fan HW	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	224 / 4.342	- 1 -	- 1 -	- 1 -	224 / 4.34
	- / -	- / -	- / -	- / -	- / -	- / -	- / -	224 / 4.342	- / -	- / -	- / -	224 / 4.34
Subtotal: Non-Recurring												
Subtotal: Non-Recurring Subtotal: VanAxiel Fan Hardware	- / -	- / -	- / -	- / -	- / -	- / -	- / -	224 / 4.342	- / -	- / -	- / -	224 / 4.34

LI 2072GA0400 - M109 FOV Modifications Army

UNCLASSIFIED
Page 7 of 21

Exhibit P-3a, Individual Modification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Modification Number / Title:

2033A / 01 / 20

2072GA0400 / M109 FOV Modifications

GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready) : B

MDAP/MAIS Code:

Models of Systems Affected: M109 Howitzer and M992 FAASV/CAT Vehicles

Modification Type: Increase Performance

Related RDT&E PEs:

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ N
Recurring											-	
Fielding HW	- 1 -	- / -	- 1 -	- / 1.913	- / -	- /1.913	- / 1.951	- /3.979	- 1 -	- / -	- 1 -	- 17.84
Subtotal: Recurring	- / -	- / -	- / -	- /1.913	- / -	- /1.913	- /1.951	- /3.979	- / -	- / -	- / -	- /7.84
Subtotal: Fielding Hardware	- / -	- / -	- / -	- /1.913	- / -	- /1.913	- /1.951	- /3.979	- / -	- / -	- / -	- /7.84
Subtotal: Procurement, All Modification Items	- /2,198.238	- /0.333	367 / 3.028	1,496 / 90.986	- / -	1,496 / 90.986	1,065 / 47.688	2,364 / 46.361	- / -	- / -	- / -	5,292 2,386.63
Installation	<u>, </u>					,						
Modification Item 3 of 13: Interior Blast Mitigation Retrofit Hardware/Fielding (M109A7)	- / -	- / -	685 / -	800 / -	- / -	800 / -	600 / -	245 / -	- 1 -	- / -	- 1 -	2,330 / -
Modification Item 4 of 13: Chief of Section Protection (Inc. I) Hardware Fielding	- / -	- 1 -	- / -	296 / -	- 1 -	296 / -	124 / -	50 / -	- 1 -	- / -	- / -	4701 -
Modification Item 5 of 13: Ventilation System Dust Cover	- 1 -	- 1 -	- 1 -	200 / -	- 1 -	200 / -	193 / -	117 / -	- 1 -	- 1 -	- 1 -	510 / -
Modification Item 6 of 13: Self-Propelled Howitzer Crew Compartment Automated Fire Extinguishing System Hardware and Fielding	- 1 -	- 1 -	- / -	120 / -	- 1 -	120 / -	193 / -	93 / -	- 1 -	- 1 -	- 1 -	406 / -
Modification Item 7 of 13: Self-Propelled Howitzer Rearview Camera Hardware	- / -	- / -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	211 / -	- / -	- 1 -	211 / -
Modification Item 8 of 13: Driver's Seatbelt Redesign Hardware	- / -	- / -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	469 / -	- / -	- 1 -	469 / -
Modification Item 9 of 13: Floor Drainage Hardware	- / -	- / -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	467 / -	- / -	- 1 -	467 / -
Modification Item 10 of 13: Carrier, Ammunition, Tracked Tanker Bar/Crowbar Stowage Hardware	- / -	- / -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	229 / -	- / -	- 1 -	229 / -
Modification Item 11 of 13: Inadvertent Automated Fire Extinguishing System (AFES) Sealed Soldered Switch Hardware	- 1 -	- 1 -	- / -	- / -	- 1 -	- / -	- / -	- 1 -	469 / -	- 1 -	- 1 -	469 / -
Modification Item 12 of 13: VanAxiel Fan Hardware	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	224 / -	- 1 -	- 1 -	224 / -
Subtotal: Installation	- / -	- / -	685/ -	1,416/ -	- / -	1,416/ -	1,110/ -	505 / -	2,069 / -	- / -	- / -	5,785 / -
Total												
Total Cost (Procurement + Support + Installation)	2.198.238	0.333	3.028	90.986	_	90.986	47.688	46.361	_	_	_	2,386.63

			UNCL	ASSIFIED					
Exhibit P-3a, Indiv	vidual Modification: P	B 2024 Army				Date: March 2023			
Appropriation / B 2033A / 01 / 20	udget Activity / Budge	et Sub Activity:	P-1 Line Item Nur 2072GA0400 / M1	nber / Title: 09 FOV Modifications	_	Modification Number / Title: GA0400 / M109 FOV Modifications			
ID Code (A=Service Read	y, B=Not Service Ready):B			MDAP/MAIS C	ode:	I			
Modification Item 1 of	13: M109 Family of Vehicles	Program Office							
Manufacturer Informa	tion								
Manufacturer Name: x				Manufacturer Location: x					
Administrative Leadtime	e (in Months):			Production Leadtime (in N	Months):				
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028		
Contract Dates	Oct 2021	Oct 2022	Oct 2023	Oct 2024	Oct 2025				
Delivery Dates	Oct 2021	Oct 2022	Oct 2023	Oct 2024	Oct 2025				
Installation Information	on								
Method of Implementa	ation (Organic): N/A				Installation (Quantity: 0			

Exhibit P-3a, Indivi	dual Modification: P	B 2024 Army				Date: March 2023						
Appropriation / Buo 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Num 2072GA0400 / M10	ber / Title: 9 FOV Modifications		Modification Number / Title: GA0400 / M109 FOV Modifications						
ID Code (A=Service Ready, E	B=Not Service Ready) : B			MDAP/MAIS Co	de:							
Modification Item 2 of 13	3: Prior Years Closed Modi	fications										
Manufacturer Information	on											
Manufacturer Name: x				Manufacturer Location: x								
Administrative Leadtime (in Months):			Production Leadtime (in Me	onths):							
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028					
Contract Dates												
Delivery Dates												
Installation Information												
Method of Implementation	on (Organic): x				Installation (Quantity: 0						

LI 2072GA0400 - M109 FOV Modifications Army

Exhibit P-3a, Individual Modification: PB 2024 Army Date: March 2023 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: 2033A / 01 / 20 2072GA0400 / M109 FOV Modifications GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready) : B MDAP/MAIS Code:

Modification Item 3 of 13: Interior Blast Mitigation Retrofit Hardware/Fielding (M109A7)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 6

rtariminos da ro Esdatimio (· · · · · · · · · · · · · · · · · · ·			
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024	Dec 2025		
Delivery Dates			Jun 2024	Jun 2025	Jun 2026		

Installation Information

Method of Implementation: .

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	- 1 -	- 1 -	685 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	685 / 0.000
FY 2024	- 1 -	- 1 -	- 1 -	800 / 0.000	- 1 -	800 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	800 / 0.000
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	600 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	600 / 0.000
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	245 / 0.000	- 1 -	- 1 -	- 1 -	245 / 0.000
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	685 / 0.000	800 / 0.000	- 1 -	800 / 0.000	600 / 0.000	245 / 0.000	- 1 -	- 1 -	- 1 -	2,330 / 0.000

Installation Schedule

Army

			FY 2	2022	-		FY 2	2023			FY 2	2024			FY 2	2025			FY	2026			FY 2	2027			FY 2	028			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	800	-	-	-	600	-	-	-	245	-	-	-	-	-	-	-	-	-	-	-	-	1,645
Out	-	-	-	-	-	-	-	-	-	-	-	400	400	-	-	300	300	-	-	122	123	-	-	-	-	-	-	-	-	-	1,645

Exhibit P-3a, Individual Modification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20

P-1 Line Item Number / Title:
2072GA0400 / M109 FOV Modifications

GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready): B

Modification Item 4 of 13: Chief of Section Protection (Inc. I) Hardware Fielding

Manufacturer Information

Manufacturer Name: TBD				Manufacturer Location: TE			
Administrative Leadtime (i	in Months): 2			Production Leadtime (in M	fonths): 3		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028

	Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contra	ct Dates			Jun 2024	Mar 2025	Mar 2026		
Deliver	y Dates			Sep 2024	Jul 2025	Jul 2026		

Installation Information

Method of Implementation: .

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	- 1 -	- 1 -	- 1 -	296 / 0.000	- 1 -	296 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	296 / 0.000
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	124 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	124 / 0.000
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	50 / 0.000	- 1 -	- 1 -	- 1 -	50 / 0.000
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	296 / 0.000	- 1 -	296 / 0.000	124 / 0.000	50 / 0.000	- 1 -	- 1 -	- 1 -	470 / 0.000

Installation Schedule

			FY 2	2022	-		FY 2	2023			FY 2	024			FY 2	025			FY 2	2026			FY 2	2027	-		FY 2	2028	-		
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	-	-	-	-	-	-	-	-	-	-	296	-	-	-	124	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	470
Out	-	-	-	-	-	-	-	-	-	-	-	74	74	74	74	31	31	31	31	12	12	13	13	-	-	-	-	-	-	-	470

Exhibit P-3a, Individual Modification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20

Date: March 2023

Modification Number / Title:
2072GA0400 / M109 FOV Modifications

GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready): B

Modification Item 5 of 13: Ventilation System Dust Cover

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 3

	'	,			,	,		
	Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
C	Contract Dates			Jun 2024	Jun 2025			
	Delivery Dates			Sep 2024	Sep 2025			

Installation Information

Method of Implementation: .

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	- 1 -	- 1 -	- 1 -	200 / 0.000	- 1 -	200 / 0.000	155 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	355 / 0.000
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	38 / 0.000	117 / 0.000	- 1 -	- 1 -	- 1 -	155 / 0.000
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	200 / 0.000	- 1 -	200 / 0.000	193 / 0.000	117 / 0.000	- 1 -	- 1 -	- 1 -	510 / 0.000

Installation Schedule

			FY 2	2022			FY 2	2023			FY 2	024			FY 2	2025			FY 2	2026			FY 2	2027			FY 2	028			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	200	-	-	-	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	355
Out	-	-	-	-	-	-	-	-	-	-	-	-	50	50	50	50	38	39	39	39	-	-	-	-	-	-	-	-	-	-	355

P-1 Line #7

Exhibit P-3a, Individual Modification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20

Date: March 2023

Modification Number / Title:
2072GA0400 / M109 FOV Modifications

GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready): B

Modification Item 6 of 13: Self-Propelled Howitzer Crew Compartment Automated Fire Extinguishing System Hardware and Fielding

Manufacturer Information

Manufacturer Name: IBD			Manufacturer Location: 1E	טט	
Administrative Leadtime (ii	n Months):			lonths): 12	

	/				/		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Oct 2023	Oct 2024			
Delivery Dates			Oct 2024	Oct 2024			

Installation Information

Method of Implementation: .

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	- 1 -	- 1 -	- 1 -	20 / 0.000	- 1 -	20 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	20 / 0.000
FY 2024	- 1 -	- 1 -	- 1 -	100 / 0.000	- 1 -	100 / 0.000	100 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	200 / 0.000
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	93 / 0.000	93 / 0.000	- 1 -	- 1 -	- 1 -	186 / 0.000
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	120 / 0.000	- 1 -	120 / 0.000	193 / 0.000	93 / 0.000	- 1 -	- 1 -	- 1 -	406 / 0.000

Installation Schedule

Army

LI 2072GA0400 - M109 FOV Modifications

			FY 2	2022			FY 2	2023			FY 2	2024			FY 2	2025			FY 2	2026	_		FY 2	2027			FY 2	028			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	-	-	-	-	-	-	-	-	-	200	-	-	-	186	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	386
Out	-	-	-	-	-	-	-	-	-	-	-	50	50	50	50	46	47	46	47	-	-	-	-	-	-	-	-	-	-	-	386

Exhibit P-3a, Individual Modification: PB 2024 ArmyDate: March 2023Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:
2072GA0400 / M109 FOV ModificationsModification Number / Title:
GA0400 / M109 FOV Modifications

MDAP/MAIS Code:

Modification Item 7 of 13: Self-Propelled Howitzer Rearview Camera Hardware

Manufacturer Information

ID Code (A=Service Ready, B=Not Service Ready) : B

Manufacturer Name: TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): Production Leadtime (in Months): 9

Administrative Leadtine (iii wontiis).			T Toddellott Ecadiinic (III II	nontris). 5		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Jun 2026		
Delivery Dates					Mar 2027		

Installation Information

Method of Implementation: .

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	211 / 0.000	- 1 -	- 1 -	211 / 0.000
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	211 / 0.000	- 1 -	- 1 -	211 / 0.000

Installation Schedule

			FY 2	2022	-		FY 2	2023			FY 2	024	-		FY 2	2025	-		FY 2	2026	-		FY 2	2027			FY 2	2028	-		
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	211	-	-	-	-	-	-	-	-	-	-	-	211
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	53	53	52	-	-	-	-	211

Exhibit P-3a, Individual Modification: PB 2024 Army Date: March 2023 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: 2033A / 01 / 20 2072GA0400 / M109 FOV Modifications GA0400 / M109 FOV Modifications ID Code (A=Service Ready, B=Not Service Ready) : B MDAP/MAIS Code:

Modification Item 8 of 13: Driver's Seatbelt Redesign Hardware

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD Production Leadtime (in Months): 9 Administrative Leadtime (in Months):

,	<u> </u>			' '	<u> </u>		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Jun 2026		
Delivery Dates					Mar 2027		

Installation Information

Method of Implementation: .

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	469 / 0.000	- 1 -	- 1 -	469 / 0.000
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	469 / 0.000	- 1 -	- 1 -	469 / 0.000

Installation Schedule

			FY 2	2022	-		FY 2	2023			FY 2	2024			FY 2	2025	-		FY	2026			FY 2	027			FY 2	028			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot												
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	469	-	-	-	-	-	-	-	-	-	-	469
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117	117	117	118	-	-	-	-	469

Exhibit P-3a, Individual Modification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

P-1 Line Item Number / Title:
2072GA0400 / M109 FOV Modifications

MDAP/MAIS Code:

MDAP/MAIS Code:

Modification Item 9 of 13: Floor Drainage Hardware

Manufacturer Information

Manufacturer Name: TBD

Administrative Leadtime (in Months):

Production Leadtime (in Months): 9

	'	,			,	,		
	Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
С	ontract Dates					Jun 2026		
D	elivery Dates					Mar 2027		

Installation Information

Method of Implementation: .

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	467 / 0.000	- 1 -	- 1 -	467 / 0.000
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	467 / 0.000	- 1 -	- 1 -	467 / 0.000

Installation Schedule

		FY 2022			FY 2023				FY 2024				FY 2025				FY 2026					FY 2	2027		FY 2028						
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	467	-	-	-	-	-	-	-	-	-	-	467
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117	117	117	116	-	-	-	-	467

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

P-1 Line Item Number / Title:
2072GA0400 / M109 FOV Modifications

GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready): B

Modification Item 10 of 13: Carrier, Ammunition, Tracked Tanker Bar/Crowbar Stowage Hardware

Manufacturer Information

Manufacturer Name: TBD

Administrative Leadtime (in Months):

Production Leadtime (in Months): 9

				· ·	<u> </u>		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Jun 2026		
Delivery Dates					Mar 2027		

Installation Information

Method of Implementation: .

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	229 / 0.000	- 1 -	- 1 -	229 / 0.000
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	229 / 0.000	- 1 -	- 1 -	229 / 0.000

Installation Schedule

		FY 2022				FY 2023					FY 2024			FY 2025				FY 2026					FY 2	2027			FY 2				
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	229	-	-	-	-	-	-	-	-	-	-	229
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57	57	57	58	-	-	-	-	229

Exhibit P-3a, Individual Modification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

P-1 Line Item Number / Title:
2072GA0400 / M109 FOV Modifications

GA0400 / M109 FOV Modifications

ID Code (A=Service Ready, B=Not Service Ready): B

Modification Item 11 of 13: Inadvertent Automated Fire Extinguishing System (AFES) Sealed Soldered Switch Hardware

Manufacturer Information

Manufacturer Name: TBD

Administrative Leadtime (in Months):

Production Leadtime (in Months): 9

	/				, -		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Jun 2026		
Delivery Dates					Mar 2027		

Installation Information

Method of Implementation: .

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	469 / 0.000	- 1 -	- 1 -	469 / 0.000
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	469 / 0.000	- 1 -	- 1 -	469 / 0.000

Installation Schedule

			FY 2	2022	-		FY 2	2023			FY 2	2024			FY 2	2025	-		FY	2026			FY 2	027			FY 2	028			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot												
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	469	-	-	-	-	-	-	-	-	-	-	469
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117	117	117	118	-	-	-	-	469

Exhibit P-3a, Individual Modification: PB 2024 Army Date: March 2023 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: 2033A / 01 / 20 2072GA0400 / M109 FOV Modifications GA0400 / M109 FOV Modifications MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready): B

Modification Item 12 of 13: VanAxiel Fan Hardware

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD Production Leadtime (in Months): 9 Administrative Leadtime (in Months):

		<u>, </u>			,	<u>'</u>		
Date	es	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Date	es					Jun 2026		
Delivery Date	s					Mar 2027		

Installation Information

Method of Implementation: .

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	0 / 0.000	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2022	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2023	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2024	0 / 0.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2025	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2026	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	224 / 0.000	- 1 -	- 1 -	224 / 0.000
FY 2027	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2028	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	224 / 0.000	- 1 -	- 1 -	224 / 0.000

Installation Schedule

			FY 2	2022			FY 2	2023			FY 2	024	-		FY 2	2025	-		FY 2	2026	-		FY 2	2027			FY 2	028			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	224	-	-	-	-	-	-	-	-	-	-	224
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	56	56	56	-	-	-	-	224

			UNCLA	ASSIFIED			
Exhibit P-3a, Indivi	dual Modification: P	B 2024 Army				Date: March 2023	
Appropriation / Bud 2033A / 01 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Num 2072GA0400 / M10	ber / Title: 9 FOV Modifications		Modification Number GA0400 / M109 FOV	
D Code (A=Service Ready,	B=Not Service Ready) : B		1	MDAP/MAIS Co	ode:	1	
Modification Item 13 of	13: Fielding Hardware						
Manufacturer Information	on						
lanufacturer Name: TBD)			Manufacturer Location: TE	3D		
dministrative Leadtime	(in Months):			Production Leadtime (in M	fonths):		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Oct 2023	Oct 2024	Oct 2025		
elivery Dates			Oct 2023	Oct 2024	Oct 2025		
ethod of Implementati	on (organic)				Installation (, autority o	

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 2073GZ0410 / Paladin Integrated Management (PIM)

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203743A

Line Item MDAP/MAIS Code: 466

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	309	43	43	24	-	24	22	37	40	39	135	692
Gross/Weapon System Cost (\$ in Millions)	3,649.402	662.900	680.089	469.152	-	469.152	444.189	594.346	643.854	644.484	2,285.972	10,074.388
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,649.402	662.900	680.089	469.152	-	469.152	444.189	594.346	643.854	644.484	2,285.972	10,074.388
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,649.402	662.900	680.089	469.152	-	469.152	444.189	594.346	643.854	644.484	2,285.972	10,074.388
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request	s are documente	d elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	11,810.362	15,416.279	15,816.023	19,548.000	-	19,548.000	20,190.409	16,063.405	16,096.350	16,525.231	16,933.126	14,558.364

Description:

This funding line is a key enabler of the Army Modernization Priorities in support of Long-Range Precision Fires.

Paladin Integrated Management (PIM) is an Acquisition Category (ACAT) level IC Major Defense Acquisition Program (MDAP). The program will replace the current fleet of M109 Family of Vehicles (FOV) consisting of the M109A6 Self Propelled Howitzer and the M992A2 Field Artillery Ammunition Supply Vehicle (FAASV). PIM is an Army Modernization Program that addresses a critical capability gap created by the Non-Line of Sight Cannon termination in June of 2009, as well as obsolescence and size/weight and power (SWaP) issues in the M109 FOV current fleet. The PIM system integrates the current Bradley Fighting Vehicle suspension and drivetrain items. Future Combat Systems (FCS) developed Electric Gun Drive systems and current fleet armament systems into a new chassis that provides better force protection, survivability and mobility over the antecedent vehicles (M109A6 and M992A2). PIM is a two vehicle system: The M109A7 Self-Propelled Howitzer (SPH) and the M992A3 Carrier Ammunition Tracked (CAT). The SPH has all characteristics listed above. The CAT utilizes all these same components and traits less those that relate directly to the cannon system. The PIM system replaces the current M109 FOV on a one for one basis, in the cannon fires battalions in the Armored Brigade Combat Team Formations and in the Echelons Above Brigade (EAB). The PIM system will continue fielding through FY 2033. The overall intent is to increase Soldier force protection, vehicle survivability, provide an appropriate amount of Space, Weight, and Power (SWaP) capacity to add future capabilities, reduce life cycle costs and extend the life of the M109 FOV.

				FY 2024	FY 2024	FY 2024				
Seconda	ry Distribution	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	31	24	12	-	12	11	19	20	19
	Total Obligation Authority	477.904	382.354	254.222	-	254.222	239.122	299.492	340.046	340.676
ANG	Quantity	12	19	12	-	12	11	18	20	20
	Total Obligation Authority	184.996	297.735	214.930	-	214.930	205.067	294.854	303.808	303.808
Total:	Quantity	43	43	24	-	24	22	37	40	39
Secondary Distribution	Total Obligation Authority	662.900	680.089	469.152	-	469.152	444.189	594.346	643.854	644.484

UNCLASSIFIED Page 1 of 10

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: |2073GZ0410 / Paladin Integrated Management (PIM)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203743A

Line Item MDAP/MAIS Code: 466

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	GZ0410 / Paladin Integrated Management (PIM)	P-5a, P-21	Α		309 / 3,649.402	43 / 662.900	43 / 680.089	24 / 469.152	- / -	24 / 469.152
P-40	Total Gross/Weapon System Cost				309 / 3,649.402	43 / 662.900	43 / 680.089	24 / 469.152	- 1 -	24 / 469.152

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base Procurement dollars in the amount of \$469.152 million support all aspects of the PIM Full Rate Production (FRP) program. Funding also supports the Government Program Management support required to provide oversight on contractor production operations that include: Quality Process Management, Program Management Reviews (weekly, monthly, and quarterly), Government Furnished Property and Material Management, and engineering activities resulting from waivers/deviations/problem resolution and supplier/vendor industrial base. Funding also supports work being completed to provide Government Furnished Material (GFM) such as cannon assemblies to the vehicle prime production contractor as well as the contractor operations needed to sustain production operations for the acquisition of materials/components/end items, manufacturing and assembly of subsystems, and the integration, test, and checkout operations required to produce all 24 vehicle sets funded with FY 2024 Base Procurement funding. The unit cost represents a cost per vehicle set (1 Self Propelled Howitzer (SPH) and 1 Carrier Ammunition Tracked (CAT)).

This funding line is a key enabler of the Army Modernization Priorities in support of Long-Range Precision Fires.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objective (AAO): 689 sets

UNCLASSIFIED Page 2 of 10

Exhibit P-5, Cost Analysis: PB 2024 Army Date: March 2023

11,810.362

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2033A / 01 / 20

2073GZ0410 / Paladin Integrated Management (PIM)

15,416.279

15,816.023

GZ0410 / Paladin Integrated

Management (PIM)

19,548.000

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

, , , , , , , , , , , , , , , , , , , ,						
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	309	43	43	24	-	24
Gross/Weapon System Cost (\$ in Millions)	3,649.402	662.900	680.089	469.152	-	469.152
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,649.402	662.900	680.089	469.152	-	469.152
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,649.402	662.900	680.089	469.152	-	469.152
(The following Resource Summary rows are for info	ormational purposes only. The cor	responding budget request	s are documented elsewhe	re.)		
Initial Spares (\$ in Millions)	_	_	_	_	_	_

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Gross/Weapon System Unit Cost (\$ in Thousands)

	P	rior Years	S		FY 2022			FY 2023		FY	2024 Bas	se	F۱	2024 OC	0	F۱	/ 2024 Tot	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost			'	'			'			'		'	'			'		
Recurring Cost																		
SYS ENG/ PROG MGMT (CONTRACTOR)	-	-	44.210	-	-	19.229	-	-	19.778	-	-	20.173	-	-	-	-	-	20.1
SYSTEM TECHNICAL SUPPORT	-	-	294.503	-	-	60.070	-	-	57.705	-	-	53.307	-	-	-	-	-	53.3
SYS TEST & EVALUATION (CONTRACTOR)	-	-	27.979	-	-	2.018	-	-	2.285	-	-	2.100	-	-	-	-	-	2.1
SYS ENG/ PROG MGMT (GOVERNMENT)	-	-	149.520	-	-	20.830	-	-	21.266	-	-	21.709	-	-	-	-	-	21.7
SYS TEST & EVALUATION (GOVERNMENT)	-	-	12.286	-	-	1.029	-	-	1.967	-	-	1.071	-	-	-	-	-	1.0
TRANSPORTATION	-	-	2.890	-	-	1.098	-	-	1.000	-	-	0.977	-	-	-	-	-	0.9
Subtotal: Recurring Cost	-	-	531.388	-	-	104.274	-	-	104.001	-	-	99.337	-	-	-	-	-	99.3
Non Recurring Cost																		
PRODUCTION FACILITIZATION	-	-	31.474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Non Recurring Cost	-	-	31.474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Flyaway Cost	-	-	562.862	-	-	104.274	-	-	104.001	-	-	99.337	-	-	-	-	-	99.3

19,548.000

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Date: March 2023

2033A / 01 / 20

2073GZ0410 / Paladin Integrated Management (PIM)

Item Number / Title [DODIC]:
GZ0410 / Paladin Integrated

Management (PIM)

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	;		FY 2022			FY 2023		F۱	′ 2024 Bas	se	FΥ	2024 OC	0	FY	2024 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
MANUFACTURING ^(†)	7,738.377	310	2,398.897	10,737.950	40	429.518	9,852.140	43	423.642	11,592.667	24	278.224	-	-	-	11,592.667	24	278.22
GOVERNMENT FURNISHED EQUIPMENT (GFE)	-	-	356.883	-	-	64.532	-	-	59.665	-	-	33.825	-	-	-	-	-	33.8
THEATRE PROVIDED EQUIPMENT	-	-	45.424	-	-	16.896	-	-	17.236	-	-	17.580	-	-	-	-	-	17.5
RECURRING PRODUCTION - OTHER	-	-	49.499	-	-	10.308	-	-	22.405	-	-	4.199	-	-	-	-	-	4.1
ENGINEERING CHANGE ORDERS	-	-	73.311	-	-	17.671	-	-	28.948	-	-	20.562	-	-	-	-	-	20.5
Subtotal: Recurring Cost	-	-	2,924.014	-	-	538.925	-	-	551.896	-	-	354.390	-	-	-	-	-	354.3
Subtotal: Hardware Cost	-	-	2,924.014	-	-	538.925	-	-	551.896	-	-	354.390	-	-	-	-	-	354.3
Support - Contractor Logistics	Support (CLS) Cost																
Oversight	-	-	2.557	-	-	1.188	-	-	0.560	-	-	0.571	-	-	-	-	-	0.5
Subtotal: Support - Contractor Logistics Support (CLS) Cost	-	-	2.557	-	,	1.188	-	-	0.560	-	-	0.571	-	,	-	-	-	0.5
Support - Data Cost		·	,								,	,				,		
Technical Publications	-	-	21.631	-	-	1.419	-	-	1.459	-	-	1.488	-	-	-	-	-	1.4
Subtotal: Support - Data Cost	-	-	21.631	-	-	1.419	-	-	1.459	-	-	1.488	-	-	-	-	-	1.4
Support - Initial Spares and Re	epair Parts Co	st																
Initial Spares and Repair Parts	-	-	53.847	-	-	7.759	-	-	11.873	-	-	8.074	-	-	-	-	-	8.0
Subtotal: Support - Initial Spares and Repair Parts Cost	-	-	53.847	-	•	7.759	-	-	11.873	-	-	8.074	-	•	-	-	-	8.0
Support - Initial Support Equip	ment (ISE) Co	st									·							
Support and Handling Equipment	-	-	9.946	-	-	2.118	-	-	2.153	-	-	2.080	-	-	-	-	-	2.0
Subtotal: Support - Initial Support Equipment (ISE) Cost	-	-	9.946	-	-	2.118	-	-	2.153	-	-	2.080	-	-	-	-	-	2.0
Support - New Equipment Tra	ining (NET) Co	ost																
Equipment	-	-	21.254	-	-	4.250	-	-	3.755	-	-	-	-	-	-	-	-	

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2033A / 01 / 20

2073GZ0410 / Paladin Integrated Management (PIM)

GZ0410 / Paladin Integrated

Management (PIM)

Date: March 2023

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	S		FY 2022			FY 2023		F	Y 2024 Bas	se	F`	Y 2024 OC	0	F`	Y 2024 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Subtotal: Support - New Equipment Training (NET) Cost	-	-	21.254	-	-	4.250	-	-	3.755	-	-	-	-	-	-	-	-	-
Support - Support Equipment	Cost															•		
Maintenance Equipment	-	-	30.560	-	-	2.967	-	-	4.392	-	-	3.212	-	-	-	-	-	3.212
Subtotal: Support - Support Equipment Cost	-	-	30.560	-	-	2.967	-	-	4.392	-	-	3.212	-	-	-	-	-	3.212
Support - Training Cost	,															•		
Equipment	-	-	22.731	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Training Cost	-	-	22.731	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	11,810.362	309	3,649.402	15,416.279	43	662.900	15,816.023	43	680.089	19,548.000	24	469.152	-	-	-	19,548.000	24	469.152

Remarks:

Quantity:

- FY 2022: Quantity awarded will be 40 vehicle sets (vs. 43 shown on the P-40) based on February 2023 contract award which will definitize in 3rd quarter FY 2023.

Unit Cost:

- FY 2024: Increased unit cost in unit manufacturing cost estimate is due to the lower quantity and higher than anticipated economic rates and market circumstances.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	31	24	12	-	12
	Total Obligation Authority	477.904	382.354	254.222	-	254.222
ANG	Quantity	12	19	12	-	12
	Total Obligation Authority	184.996	297.735	214.930	-	214.930
Total:	Quantity	43	43	24	-	24
Secondary Distribution	Total Obligation Authority	662.900	680.089	469.152	-	469.152

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024	Army	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2073GZ0410 / Paladin Integrated Management (PIM)	Item Number / Title [DODIC]: GZ0410 / Paladin Integrated
2003A 1 011 20	2073G2041071 aladin integrated management (Film)	Management (PIM)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	o	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
MANUFACTURING ^(†)		2022	BAE / York	SS / FPIF	TACOM, Warren, MI	Oct 2022	Oct 2024	40	10,737.950	N		
MANUFACTURING ^(†)		2023	BAE / York	SS / FPIF	TACOM, Warren, MI	Apr 2023	Aug 2025	43	9,852.140	N		
MANUFACTURING ^(†)		2024	BAE / York	SS / FPIF	TACOM, Warren, MI	Mar 2024	Aug 2026	24	11,592.667	N		

^(†) indicates the presence of a P-21

Remarks:

Quantity:

- The FY 2022 quantity will be updated to reflect 40 vehicle sets (vs. 43 shown on the P-40) based on follow-on award in February 2023 for 40 vehicle sets which will definitize in 3rd quarter FY 2023.

Unit Cost:

- The FY 2024 increase in unit manufacturing cost estimate is due to the lower quantity and higher than anticipated economic rates and market circumstances.

E>	hib	it P	-21, Pro	oduct	ion Sc	hedu	le: PE	3 202	4 Arm	าy														Date	: Mar	rch 20	023				
			ation / 1 1 / 20	Budg	et Acti	vity /	Budg	jet S	ub Ac	ctivity	:	1 - '	Line 73GZ(anag	emen	t (PIN	1)		GZ0		Pala	din In	[DOI tegrat			
	,			lements in Each)		,				,		Fiscal	rear 2023											Fiscal Ye	ear 2024						В
					ACCEPT									С	alendar	Year 202	23	·			_				Calen	dar Yea	r 2024				Ĺ
000	R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P	A N C E
MA	NUFA	ACTUF	RING						<u>'</u>				•											,							
Pri	or Yea	ars De	liveries: 310																												
	1 2	2022	ARMY	40	0	40	Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1 2	2023	ARMY	43	0	43			•				Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
	1 2	2024	ARMY	24	0	24								,										Α -	-	-	-	-	-	-	2
					•		0	N O	D E	J A	F E	M	A P	M A	Ŋ	J	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	

Exh	hib	it P	P-21, Pro	oducti	ion Sc	hedul	le: PE	3 202	4 Arm	ıy														Date	: Ma	rch 20)23				
	-	-	i ation / 01 / 20	Budge	et Acti	vity /	Budg	jet Sı	ıb Ac	tivity:			_	Item 0410 /	-			ed Ma	nage	men	t (PIM	1)		GZ0	410 <i>l</i>	nber / Palad nent (F	din Int				
				lements in Each)								Fiscal Y	ear 2025											Fiscal Yo	ear 2026						В
					ACCEPT									С	alendar	Year 202	:5								Caler	ndar Year	2026] [
O F C R O #	-	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
MAN	IUFA	ACTUF	RING							'			,			,		<u>'</u>										,			
Prior	r Yea	ars De	eliveries: 310																												
1	1 2	2022	ARMY	40	0	40	4	4	4	4	3	3	3	3	3	3	3	3													
1	1 2	2023	ARMY	43	0	43	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	3	3	3	3	3		ſ	
1	1 2	2024	ARMY	24	0	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
							0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A	J U N	n n	A U G	S E	0 C	N O V	D E C	J A N	F E B	M A R	A P R	M A	J U N	n n	A U G	S E P	

Page 8 of 10

Ex	hik	bit P	P-21, Pro	ducti	on Sc	hedul	le: PB	2024	4 Arm	у														Date	: Maı	rch 20)23				
-	-	-	i ation / I)1 / 20	Budge	t Acti	vity /	Budg	et Sı	ıb Ac	tivity					Num Pala				anag	emen	nt (PIN	1)		GZ0		Palac	din Int	[DOE egrate	_		
			Cost El (Units i									Fiscal Y	ear 2027											Fiscal Y	ear 2028						-
					ACCEPT									C	Calendar	Year 202	:7								Calen	dar Year	2028] i
0 I 0 I 0 I	F R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2026	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
MAN	NUF	ACTU	RING													,		,	,		<u>'</u>					,					
Prio	r Ye	ears De	eliveries: 310																												
_	1 :	2022	ARMY	40	40	0																									
	1 :	2023	ARMY	43	43	0											,														
	1 :	2024	ARMY	24	4	20	2	2	2	2	2	2	2	2	2	2															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U J	J U L	A U G	S E P	

Exhibit P-21, Production Schedule: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 2073GZ0410 / Paladin Integrated Management (PIM)	Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2024	1-8-5 For 2024	MAX For 2024	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	BAE - York	2	4	5	0	15	30	45	0	15	30	45

Remarks:

Quantity:

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

⁻ FY 2022: Quantity awarded will be 40 vehicle sets (vs. 43 shown on the P-40), Follow-on Award of Early Order Material (EOM) for 40 vehicle sets in February 2023 and will definitize the award in 3rd quarter FY2023.

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

Exhibit P-40, Budget Line Item Justification: PB 2024 Army Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 3700GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)

P-1 Line #9

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: 539

Ellic Itelli IIIDAI /IIIAlo Gode: 666												
	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	933	0	21	-	-	-	14	12	14	14	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	2,898.083	51.725	132.203	41.058	-	41.058	151.351	158.437	153.870	144.625	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,898.083	51.725	132.203	41.058	-	41.058	151.351	158.437	153.870	144.625	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,898.083	51.725	132.203	41.058	-	41.058	151.351	158.437	153.870	144.625	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	3,106.198	-	6,295.381	-	-	-	10,810.786	13,203.083	10,990.714	10,330.357	Continuing	Continuing

Description:

The M88 Heavy Equipment Recovery Combat Utility Lift and Evacuation System (HERCULES) Family of Vehicles (FoV) provides towing, winching, and hoisting operations to support battlefield Single Vehicle Recovery (SVR) operations and evacuation of heavy tanks and other tracked combat vehicles. The current M88A2 HERCULES variant provides support to vehicles up to 70-tons. It recovers tanks mired to differing depths, removes/replaces M1 turrets and power packs, and uprights overturned/mired heavy combat vehicles with a 70-ton continuous pull main winch capacity. The Army is on track to modernize the M88 FoV to regain SVR due to the increased weight (up to 80 tons with force protection kits applied) of some of the Army's major combat vehicle systems and the loss of SVR capabilities. This will be accomplished by applying the single vehicle recovery Engineering Change Proposal (ECP) that includes modified non-developmental technologies comprising a new Power Train (Engine & Transmission), new Suspension, and Improved Track to the M88A2 vehicle resulting in the M88A3 variant vehicle. The M88A3 vehicles will bring back the operational capability of the single vehicle recovery. The increased winching and lifting capability can accommodate all 80-ton Abrams variants. Without this increased capability, units must use two M88A2 recovery vehicles to perform the necessary spectrum of recovery operations.

The Combat Recovery Vehicle (CRS) program provides funding for the procurement of M88 Family of Vehicles (FoV), as well as personnel, engineering, design, testing, hardware procurement, and application of improvements to resolve safety, readiness, and vehicle recovery operation issues identified in the field and approved by the Materiel Developer and Combat Developer. These improvements will increase operational readiness rates to meet objectives, improve vehicle safety and operation, and integrate new equipment to meet field requirements. Engineering Change Proposals (ECPs) will be applied and procured through modification work order (MWO) for the M88 FoV. Specific modifications include improvements related to engine reliability, automatic fire extinguishing system (AFES), power management system, improved automotive performance related to braking, and special tools delta kits. Funding also maintains M88 HERCULES vehicle fielding support and M88 Safety/Reliability ECPs (e.g., Auxiliary Power Unit, Battery Disconnect), Funding supports requirements for production facilitization updates and improvements at the Vehicle Upgrade and Overhaul Center (VUOC) in Anniston, AL, the manufacturing facility in York, PA, and associated vendors.

	Secondary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	9	-	-	-	14	12	14	14
	Total Obligation Authority	51.725	84.270	41.058	-	41.058	151.351	158.437	153.870	144.625
ANG	Quantity	-	12	-	-	-	-	-	-	-
	Total Obligation Authority	-	47.933	-	-	-	-	-	-	-
Total:	Quantity	-	21	-	-	-	14	12	14	14

Exhibit P-40, Budget Line Item Justification: PB 2024 Army Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 3700GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: 539

ID Code (A=Service Ready, B=Not Service Ready): A

					FY 2024	FY 2024	FY 2024				
	Secondary	Distribution	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028
S	Secondary Distribution Total Obligation Authority		51.725	132.203	41.058	-	41.058	151.351	158.437	153.870	144.625

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 3700GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: 539

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)	P-5a	Α		933 / 2,898.083	0 / 51.725	21 / 132.203	- /41.058	- / -	- /41.058
P-40	Total Gross/Weapon System Cost	,			933 / 2,898.083	0 / 51.725	21 / 132.203	- / 41.058	- 1 -	- /41.058

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base Procurement dollars in the amount of \$41.058 million supports the M88 Family of Vehicles (FoV) System Technical Support (STS) and modification priorities. Modification priorities include the Engine Reliability Improvement (EFI) effort (converting the mechanical fuel injection system into an electronic fuel injection system) and procurement of kits associated with the Automatic Fire Extinguishing System (AFES) and other safety improvements. Funding maintains STS efforts such as STS management, Total Ownership Cost Reduction (TOCR), field feedback, fire investigations, facility vehicle maintenance, Technical Data Package (TDP) maintenance, Environmental, Safety, and Occupational Health (ESOH) corrosion prevention and control, and modification integration for the M88 FoV currently being produced and fielded.

M88 FoV modifications also address improvements for increasing operational readiness rates to meet objectives: improving vehicle safety and operation and integrating new equipment. The M88 FoV Engineering Change Proposals (ECPs) require application to the vehicles through a Modification Work Order (MWO). Specific modifications include safety and reliability modifications to the engine; converting the mechanical fuel injection to an electronic fuel injection system, providing on-board engine diagnostics, as well as upgrading the exhaust manifolds and turbos that have been identified as significant initiation sources during fire investigations. Additional modifications finalize the updates to the automatic fire extinguishing system (AFES); the vehicle power management system which includes the auxiliary power unit system (APU), special tools delta kits, improvements to automotive performance related to braking, and other operation and safety improvements.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110 - 181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

P-1 Line Item Number / Title:
3700GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)

Item Number / Title [DODIC]:
GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)

MDAP/MAIS Code:

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total				
Procurement Quantity (Units in Each)	933	0	21	-	-	-				
Gross/Weapon System Cost (\$ in Millions)	2,898.083	51.725	132.203	41.058	-	41.058				
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-				
Net Procurement (P-1) (\$ in Millions)	2,898.083	51.725	132.203	41.058	-	41.058				
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-				
Total Obligation Authority (\$ in Millions)	2,898.083	51.725	132.203	41.058	-	41.058				
(The following Resource Summary rows are for informat	ional purposes only. The cor	responding budget request	s are documented elsewher	re.)						
Initial Spares (\$ in Millions)	-	-	-	-	-	-				
Gross/Weapon System Unit Cost (\$ in Thousands)	3,106.198	-	6,295.381	-	-	-				

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

ID Code (A=Service Ready, B=Not Service Ready): A

	F	Prior Years	3	FY 2022			FY 2023		FY 2024 Base			FY 2024 OCO			FY 2024 Total			
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost							'	<u>'</u>					'			'		
Recurring Cost																		
M88 Vehicle Manufacturing - Contractor ^(†)	2,282.237	933	2,129.327	-	-	-	3,295.667	21	69.209	-	-	-	-	-	-	-	-	
Vehicle Manufacturing - GFE	-	-	102.304	-	-	-	117.381	21	2.465	-	-	-	-	-	-	-	-	
Hull Reclamation	-	-	85.603	-	-	-	216.000	21	4.536	-	-	-	-	-	-	-	-	
Fielding (TPF & NET)	-	-	97.241	-	-	0.140	253.524	21	5.324	-	-	-	-	-	-	-	-	
Transportation	-	-	16.248	-	-	-	12.381	21	0.260	-	-	-	-	-	-	-	-	
Test (Production Verification Testing)	-	-	25.808	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
System Technical Support	-	-	337.766	-	-	38.863	-	-	35.464	-	-	30.821	-	-	-	-	-	30.8
Program Management	-	-	103.786	-	-	5.690	-	-	7.106	-	-	7.237	-	-	-	-	-	7.2
Modifications	-	-	-	-	-	7.032	-	-	7.839	-	-	3.000	-	-	-	-	-	3.0
Subtotal: Recurring Cost	-	-	2,898.083	-	-	51.725	-	-	132.203	-	-	41.058	-	-	-	-	-	41.0
Subtotal: Flyaway Cost	-	-	2,898.083	-	-	51.725	-	-	132.203	-	-	41.058	-	-	-	-	-	41.0
Gross/Weapon System Cost	3,106.198	933	2,898.083	-	0	51.725	6,295.381	21	132.203	-	-	41.058	-	-	-	-	-	41.0

Remarks:

Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 3700GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)	Item Number / Title [DODIC]: GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)

ID Code (A=Service Ready, B=Not Service Ready): A

Modification funding should not be included in the unit cost. The calculation for unit cost is the sum of M88 Vehicle Manufacturing Contractor, Vehicle Manufacturing Government Furnished Equipment (GFE), Hull Reclamation, Fielding (TPF) & (NET), and Transportation divided by vehicle quantity.

MDAP/MAIS Code:

The Average Procurement Unit Cost (APUC) for FY 2023 is \$3.895M for a quantity of 21 M88A2s.

After the submission of the FY 2023 budget, the program office requested a zero sum (within BLI) realignment of efforts and funding in the amount of \$69.332 million to support the procurement of M88A2 vehicles. Due to the timing of receipt of funding and the contracting administrative process, the planned FY 2023 contract award shifted from June 2023 to November 2023.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	-	9	-	-	-
	Total Obligation Authority	51.725	84.270	41.058	-	41.058
ANG	Quantity	-	12	-	-	-
	Total Obligation Authority	-	47.933	-	-	-
Total:	Quantity	0	21	-	=	-
Secondary Distribution	Total Obligation Authority	51.725	132.203	41.058	-	41.058

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024 A	ırmy	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 3700GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)	Item Number / Title [DODIC]: GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
M88 Vehicle Manufacturing - Contractor		2023	BAE Systems / Anniston, AL	C / FFP	Detroit Arsenal, MI	Nov 2023	Feb 2025	21	3,295.667	Υ		

Remarks

After the submission of the FY 2023 budget, the program office requested a zero sum (within BLI) realignment of efforts and funding in the amount of \$69.332 million to support the procurement of M88A2 vehicles. Due to the timing of receipt of funding and the contracting administrative process, the planned FY 2023 contract award shifted from June 2023 to November 2023.

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 4520GZ3250 / Assault Bridge (Mod)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	384.674	2.136	-	-	-	-	-	5.369	6.167	6.167	-	404.513
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	384.674	2.136	-	-	-	-	-	5.369	6.167	6.167	-	404.513
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	384.674	2.136	-	-	-	-	-	5.369	6.167	6.167	-	404.513
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	5,574.986	534.000	-	-	-	-	-	536.900	513.917	513.917	-	3,780.495

Description:

The Assault Bridge (MOD) budget line funds the modifications of assault bridging equipment. It is used to procure hardware, materials, and hardware installation cost required to complete the modification. Modifications are performed to improve survivability, correct safety deficiencies, increase efficiency, extend the useful life, improve supportability, upgrade existing technology, increase efficiency, improve readiness, reduce risk of obsolescence and to meet new legal and regulatory requirements. By modifying existing equipment, the Army maintains a ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new equipment.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.136	-	-	-	-	-	5.369	6.167	6.167
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	2.136	-	-	-	-	-	5.369	6.167	6.167

Justification:

There is no FY 2024 budget request for this funding line.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

> UNCLASSIFIED Page 1 of 1

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 5129G80571 / M88 FOV MODS

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Date: March 2023

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	_
Gross/Weapon System Cost (\$ in Millions)	154.272	0.334	-	-	-	-	-	-	-	-	-	154.606
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	154.272	0.334	-	-	-	-	-	-	-	-	-	154.606
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	154.272	0.334	-	-	-	-	-	-	-	-	-	154.606
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Ti	ne corresponding	g budget request	s are documente	ed elsewhere.)	1	*		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	_

Description:

The M88 Fleet Modification Program provided funding for personnel, engineering design, testing, hardware procurement, and application in support of improvements to resolve problems identified in the field and be approved by the Materiel and Combat Developer for fielded M88 family of vehicles (FOV). These improvements addressed maintaining operational readiness rates, improving vehicle safety and operation, and integrating new equipment. Modifications included improvements related to engine reliability, automatic fire extinguishing system (AFES), power management system, improved automotive performance related to braking, and special tools delta kits.

Secondary	/ Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.334	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.334	-	-	-	-	-	-	-	-

Justification:

There is no FY 2024 budget request for this funding line.

The M88 Modification efforts and funding for the 5129G80571 / M88 FOV MODS, were realigned to 3700GA0570 / Improved Recovery Vehicle (M88A2 HERCULES), starting in FY 2022.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

UNCLASSIFIED

P-1 Line #11

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 5225GZ3001 / Joint Assault Bridge

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604804A

Line Item MDAP/MAIS Code: N/A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	97	17	6	24	-	24	29	22	28	34	-	257
Gross/Weapon System Cost (\$ in Millions)	552.540	110.588	36.990	159.804	-	159.804	180.097	142.708	179.259	213.572	-	1,575.558
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	552.540	110.588	36.990	159.804	-	159.804	180.097	142.708	179.259	213.572	-	1,575.558
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	552.540	110.588	36.990	159.804	-	159.804	180.097	142.708	179.259	213.572	-	1,575.558
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	5,696.289	6,505.176	6,165.000	6,658.500	-	6,658.500	6,210.241	6,486.727	6,402.107	6,281.529	-	6,130.576

Description:

The Joint Assault Bridge (JAB) replaces the existing Wolverine and the M48A5/M60 series chassis Armored Vehicle Launched Bridge (AVLB) to meet current maneuver force survivability, suitability and supportability requirements. The Joint Assault Bridge (JAB) is an M1A1 Abrams Chassis-based engineer vehicle with a heavy M1A2 Abrams suspension that launches and retrieves the 18.3 meter Heavy Assault Scissor Bridge (HASB), which is currently rated at Military Load Class (MLC) 115. Armored Vehicle Launched Bridges (AVLBs) are upgraded to the Military Load Class (MLC) 115 Heavy Assault Scissor Bridge (HASB) as part of the JAB production program at Anniston Army Depot (ANAD). The JAB system will be employed with Army Armored Brigade Combat Teams (ABCT) in the Brigade Engineer Battalions (BEB). Engineer Mobility Augmentation Companies (MAC), and Combat Engineer Companies - Armored (CEC-A). The production / acquisition strategy includes a partnership with Anniston Army Depot (ANAD) for the production of the Abrams chassis. Initial Operational Test (IOT) was completed November 2020. The Type Classification Standard (TC-STD) and Full Rate Production (FRP) approval decision was granted in March 2021.

Joint Assault Bridge (JAB) Army Acquisition Objective (AAO): 297

Seconda	ary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	10	6	18	-	18	19	12	10	10
	Total Obligation Authority	63.197	36.990	120.140	-	120.140	118.440	77.201	61.448	61.240
ANG	Quantity	7	-	6	-	6	10	7	10	10
	Total Obligation Authority	47.391	-	39.664	-	39.664	61.657	43.574	64.677	62.696
AR	Quantity	-	-	-	-	-	-	3	8	14
	Total Obligation Authority	-	-	-	-	-	-	21.933	53.134	89.636
Total:	Quantity	17	6	24	-	24	29	22	28	34
Secondary Distribution	Total Obligation Authority	110.588	36.990	159.804	-	159.804	180.097	142.708	179.259	213.572

UNCLASSIFIED Page 1 of 8

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: | 5225GZ3001 / Joint Assault Bridge

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604804A

Line Item MDAP/MAIS Code: N/A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	GZ3001 / Joint Assault Bridge	P-5a, P-21	Α		97 / 552.540	17 / 110.588	6 / 36.990	24 / 159.804	- / -	24 / 159.804
P-40	Total Gross/Weapon System Cost				97 / 552.540	17 / 110.588	6 / 36.990	24 / 159.804	- 1 -	24 / 159.804

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base Procurement dollars in the amount of \$145.434 million procures twenty-four (24) Joint Assault Bridges (JABs). Funding supports the organic industrial base with work to be performed at Anniston Army Depot (ANAD), including purchase of long lead material and subsequent production effort.

FY 2024 Base Procurement dollars in the amount of \$14.370 million procures two (2) Joint Assault Bridges (JABs) in support of the European Deterrence Initiative (EDI). FY 2024 EDI funding has decreased by \$9.078 million from FY 2023 due to reduction in submitted Combatant Command (COCOM) requirements.

The Joint Assault Bridge (JAB) fills a critical need in the Army Armored Brigade Combat Teams (ABCT) / Brigade Engineer Battalions (BEB), Engineer Mobility Augmentation Companies (MAC), Combat Engineer Companies - Armored (CEC-A) formations, and provides a system that offers the Combatant Commander improved readiness and enhanced survivability, mobility, and sustainability over the legacy M48A5/M60 Armored Vehicle Launched Bridge (AVLB).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

LI 5225GZ3001 - Joint Assault Bridge Army

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

Date: March 2023

Item Number / Title [DODIC]:
5225GZ3001 / Joint Assault Bridge

GZ3001 / Joint Assault Bridge

ID Code (A=Service Ready, B=Not Service Ready): A		N	IDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	97	1	7 6	24	-	24
Gross/Weapon System Cost (\$ in Millions)	552.540	110.58	8 36.990	159.804	-	159.804
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	552.540	110.58	8 36.990	159.804	-	159.804
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	552.540	110.58	8 36.990	159.804	-	159.804
(The following Resource Summary rows are for informati	onal purposes only. The cor	responding budget reque	sts are documented elsewhe	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	5,696.289	6,505.17	6,165.000	6,658.500	-	6,658.500

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	P	rior Years	3		FY 2022			FY 2023		FY	' 2024 Bas	e	FY	/ 2024 OC	0	FY	2024 Tot	.al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
lyaway Cost		'		'						'			'			'	'	
Recurring Cost																		
Hardware - Low Rate Initial Production (LRIP)	1,416.646	79	111.915	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware - Full Rate Production (FRP) ^(†)	1,171.042	24	28.105	1,241.588	17	21.107	1,192.167	6	7.153	1,913.708	24	45.929	-	-	-	1,913.708	24	45.9
Government Furnished Materials (GFM) Anniston Army Depot (ANAD) Rolling Chassis	2,617.087	103	269.560	3,689.529	17	62.722	2,839.833	6	17.039	3,735.750	24	89.658	-	-	-	3,735.750	24	89.6
Bridge Upgrades	490.524	103	50.524	476.824	17	8.106	498.000	6	2.988	535.417	24	12.850	-	-	-	535.417	24	12.8
Engineering Changes	-	-	24.675	-	-	2.704	-	-	2.581	-	-	2.000	-	-	-	-	-	2.0
System Engineering/ Program Management	-	-	35.159	-	-	4.163	-	-	4.205	-	-	4.205	-	-	-	-	-	4.2
Support Equipment/ Associated Support Items Of Equipment (ASIOE)	-	-	7.992	-	-	1.014	-	-	1.220	-	-	2.700	-	-	-	-	-	2.7
Fielding	-	-	5.315	-	-	1.679	-	-	0.900	-	-	1.600	-	-	-	-	-	1.0
First Destination Transportation - FDT	-	-	2.681	-	-	0.411	-	-	0.280	-	-	0.500	-	-	-	-	-	0.9
Subtotal: Recurring Cost	-	-	535.926	-	-	101.906	-	-	36.366	-	-	159.442	-	-	-	-	-	159.4
Non Recurring Cost																		
Logistics Products	-	-	6.132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

LI 5225GZ3001 - Joint Assault Bridge
Army

Exhibit P-5, Cost Analysis: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2033A / 01 / 20

5225GZ3001 / Joint Assault Bridge

GZ3001 / Joint Assault Bridge

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	S		FY 2022			FY 2023		F	1 2024 Ba	se	F	/ 2024 OC	0	F	/ 2024 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Simulator - Common Driver Trainer (CDT) Update	-	-	10.482	-	-	3.121	-	-	0.304	-	-	0.362	-	-	-	-	-	0.36
Interim Contractor Logistics Support (ICLS)	-	-	-	-	-	0.746	-	-	0.320	-	-	-	-	-	-	-	-	-
Reprogrammed dollars	-	-	-	-	-	4.815	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	16.614	-	=	8.682	-	-	0.624	-	-	0.362	-	-	-	-	-	0.362
Subtotal: Flyaway Cost	-	-	552.540	-	-	110.588	-	-	36.990	-	-	159.804	-	-	-	-	-	159.80
Gross/Weapon System Cost	5,696.289	97	552.540	6,505.176	17	110.588	6,165.000	6	36.990	6,658.500	24	159.804	-	-	-	6,658.500	24	159.804

Remarks:

The lowered FY 2023 Anniston Army Depot (ANAD) unit cost is not expected to persist into FY 2024. The ANAD unit cost for FY 2024 is projected to be higher due to the rising cost of materials, increasing material surcharges, overhead, and labor rates.

The FY 2023 to FY 2024 hardware contractual unit cost increase is mainly attributable to the addition of Bridge Launch Mechanism Armor Engineering Change Proposal.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	10	6	18	-	18
	Total Obligation Authority	63.197	36.990	120.140	-	120.140
ANG	Quantity	7	-	6	-	6
	Total Obligation Authority	47.391	-	39.664	-	39.664
Total:	Quantity	17	6	24	-	24
Secondary Distribution	Total Obligation Authority	110.588	36.990	159.804	-	159.804

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024 A	Army	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2033A / 01 / 20	5225GZ3001 / Joint Assault Bridge	GZ3001 / Joint Assault Bridge

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware - Full Rate Production (FRP) ^(†)		2022	DRS Sustainment Systems, Inc. / Saint Louis, MO	C / FFP	TACOM, Warren, MI	May 2022	Jun 2023	17	1,241.588	Y		
Hardware - Full Rate Production $(FRP)^{(\dagger)}$		2023	DRS Sustainment Systems, Inc. / Saint Louis, MO	C / FFP	TACOM, Warren, MI	Oct 2022	Jun 2024	6	1,192.167	Y		
Hardware - Full Rate Production (FRP) ^(†)		2024	DRS Sustainment Systems, Inc. / Saint Louis, MO	C / FFP	Tacom, Warren,MI	Nov 2023	Dec 2024	24	1,913.708	Y		

^(†) indicates the presence of a P-21

														O.	I O L A	100.	LIED														
Ex	chil	bit F	P-21, Pro	oducti	on Sc	hedu	le: Pl	B 202	4 Arn	าy														Date	: Maı	rch 20)23				
			iation / 01 / 20	Budge	et Acti	vity /	Bud	get S	ub Ad	ctivity	' :	-					Title: ault Bi											[DOD ult Bri			
				lements in Each)		,						Fiscal `	Year 2022	2										Fiscal Y	ear 2023						В
					ACCEPT									(Calendar	Year 20	22								Calen	dar Yea	2023				Ĺ
0 0 0		FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	J	A U G	чπо	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	Z C C	J U L	A U G	S E P	N C E
На	rdwa	are - Fu	III Rate Produ	ction (FRF	P)		ı																								
Pri	or Ye	ears De	eliveries: 24																												
	1	2022	ARMY	17	0	17								Α -	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	2	
	1	2023	ARMY	6	0	6													Α -	-	-	-	-	-	-	-	-	-	-	-	
	1	2024	ARMY	24	0	24																									:
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	n 1	A U G	υEρ	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	ZCC	J U L	A U G	S E P	

C R FY SERVICE PROC QTY 2023 AS OF 1 OCT T C O E N B R R P Y N U U U G P T Hardware - Full Rate Production (FRP) Prior Years Deliveries: 24 1 2022 ARMY 17 7 10 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2033A / 01 / 20 Cost Elements (Units in Each) Fiscal Year 2024 Fiscal Year 2025	4	. F -2 I, FI	duction S	chedu	le: PE	3 202	4 Arm	ıy														Date	: Mar	ch 20	23				
Column First Fir	Column Fiscal Year 2025 Fi			Budget Ac	tivity /	Budg	jet Sı	ıb Ac	tivity	:																				
N	N	,									Fiscal Y	ear 2024	ļ										Fiscal Ye	ar 2025						В
O F F V SERVICE FY SERVICE TO1 OCT	O F F V SERVICE FY SERVICE TO1 OCT	M											С	Calendar	Year 202	24								Calend	lar Year	2025				L
Prior Years Deliveries: 24 1 2022 ARMY 17 7 10 2 2 1 1 1 1 1 1 1 1	Prior Years Deliveries: 24 1 2022 ARMY 17 7 10 2 2 1 1 1 1 1 1 1 1	O F C R	SERVICE	PROC OCT	DUE AS OF	С	0	E	Α	F E B	Α	P	Α		J U L	U	S E P	С	0	E	J A N	E	Α	P	Α	J U	J U L	U	E	N C E
1 2022 ARMY 17 7 10 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2022 ARMY 17 7 10 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hardware -	Full Rate Produ	ction (FRP)								ļ																		
1 2023 ARMY 6 0 6 2 2 2 2 1 2024 ARMY 24 0 24 A 1 3 3 3 3 3	1 2023 ARMY 6 0 6 2 2 2 2 1 2024 ARMY 24 0 24 A 1 3 3 3 3 3	Prior Years	Deliveries: 24																											
1 2024 ARMY 24 0 24 A 1 3 3 3 3 3 3 3 2 O N D J F M A M J J A S O N D J F M A M J J A C O E A E A P A U U U U E C O E A E A P A U U U U U E C O E A E A P A U U U U U U U U U U U U U U U U U	1 2024 ARMY 24 0 24 A 1 3 3 3 3 3 3 3 2 O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O D D D D D D D D D D D D D D D D D D		_		_		2	1	1	1	1	1	1				1													_
O N D J F M A M J J A S O N D J F M A M J J A C O E A E A P A U U U U E C O E A E A P A U U U	O N D J F M A M J J A S O N D J F M A M J J A S C O E A E A P A U U E C O E A E A P A U U E			-	-			-	-	-	-	-	-	2		2			1			1		1					1	
C O E A E A P A U U U E C O E A E A P A U U U	C O E A E A P A U U U E C O E A E A P A U U U E	1 2024	4 ARMY	24	0 24				-					-	-					1	-		-	-		. 3	3			₩
T V C N B R R Y N L G P T V C N B R R Y N L G						С	0	E		E	Α	P	Α		U L	U	E	С	0	E	A	E	Α	P	Α		U L	U	E	

Exhibit P-21, Production Schedule: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2033A / 01 / 20	5225GZ3001 / Joint Assault Bridge	GZ3001 / Joint Assault Bridge

		Produc	tion Rates (Each /	Month)				adtime (Months)	iths)					
MF	R					lni	tial			Reo				
Re		MSR For 2024	1-8-5 For 2024	MAX For 2024	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1		
	1 DRS Sustainment Systems, Inc Saint Louis, MO	2	2	4	0	5	14	19	0	2	13	15		

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

LI 5225GZ3001 - Joint Assault Bridge Army

Exhibit P-40, Budget Line Item Justification: PB 2024 Army Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: |6500GA0750 / Abrams Upgrade Program

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A Program Elements for Code B Items: N/A Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

B : FV cook FV cook FV cook														
	Prior			FY 2024	FY 2024	FY 2024					То			
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total		
Procurement Quantity (Units in Each)	1,879	90	90	34	-	34	45	49	21	70	Continuing	Continuing		
Gross/Weapon System Cost (\$ in Millions)	14,652.881	1,145.837	1,247.340	697.883	-	697.883	1,085.453	1,207.482	700.564	1,548.754	Continuing	Continuing		
Less PY Advance Procurement (\$ in Millions)	2,064.494	-	-	-	-	-	102.440	111.455	59.992	144.359	-	2,482.740		
Net Procurement (P-1) (\$ in Millions)	12,588.387	1,145.837	1,247.340	697.883	-	697.883	983.013	1,096.027	640.572	1,404.395	Continuing	Continuing		
Plus CY Advance Procurement (\$ in Millions)	2,064.494	-	-	102.440	-	102.440	111.455	59.992	144.359	-	-	2,482.740		
Total Obligation Authority (\$ in Millions)	14,652.881	1,145.837	1,247.340	800.323	-	800.323	1,094.468	1,156.019	784.931	1,404.395	Continuing	Continuing		
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	budget request	s are documente	d elsewhere.)						
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Unit Cost (\$ in Thousands)	7,798.234	12,731.522	13,859.333	20,525.971	-	20,525.971	24,121.178	24,642.490	33,360.190	22,125.057	Continuing	Continuing		

Description:

The Abrams Tank Program enables combat supremacy by upgrading existing tank variants to the M1A2 System Enhancement Package version 3 (SEPv3) configuration, modifying the fielded tank fleet and managing the industrial base (IB) recurring cost of daily operations and support of the production plants. This program focuses on planning, preparing, and executing all efforts required to produce the current and future Abrams tanks. The Abrams Program provides total package fielding and associated training devices to support fleet upgrades and modifications.

The Abrams Tank Production Program upgrades existing Abrams tank variants to the M1A2 SEPv3 tank configuration in order to enhance tank survivability, lethality, and mobility while improving overall system. reliability and durability. The M1A2 SEPv3 incorporates turret and hull armor upgrades, mine blast improvements, reactive armor tiles, lightweight belly armor, improved countermine equipment, Improvised Explosive Device (IED) jamming equipment, a Total Integrated Engine Revitalization (TIGER) engine, an upgraded transmission, an Auxiliary Power Unit (APU), improved power generation & distribution, Ammunition Data Link (ADL) for smart munitions. Embedded Training, Blue Force Tracker, Block 1 Second Generation Forward Looking Infra-Red (FLIR) technology, and improved computer systems with Line Replaceable Modules (LRMs) to include microprocessors, high-definition color flat panel displays, increased memory capacity. Gigabit Ethernet, and a new operating system designed to run the Common Operating Environment (COE) software. The Abrams Tank Production Program funds the costs required for the daily operation of the production plants producing M1A2 SEPv3 tanks and components. The Abrams Tank Production Program also mitigates SEPv3 tank obsolescence through Bill of Materiel (BOM) screening, last chance buys, and hardware refresh projects.

The M1A2 SEPv4 is a "lethality" system improvement that provides the warfighter with significantly greater operational capabilities including the key technology 3rd Generation Forward Looking Infrared (3GEN FLIR). Advanced Procurement supports the procurement of initial SEPv4 3GEN FLIR components. The M1A2 SEPv4 is also equipped with new color cameras to the gunner/commander primary sights, an improved laser range finder, integration of a laser warning receiver system, improved lethality via Fire Control System (FCS) digital communication with a new Advanced Multi-Purpose round, improved accuracy via integration of a meteorological sensor, and improved onboard diagnostics.

The Abrams Tank Fleet Modification Program provides System Technical Support (STS) for critical Abrams suppliers. The program applies the Material Developer and Combat Developer approved modifications to the fielded Abrams family of vehicles either through field modifications at the unit or through application during vehicle recapitalization.

Beginning in FY 2022, Abrams Modification (Mod) efforts and funding were realigned from the 6406GA0700 / M1 Abrams Tank (MOD) funding line for greater program transparency, responsiveness, and flexibility. Also beginning in FY 2021, the Abrams Modification Government Owned - Government Operated (GOGO) and Government Owned - Contractor Operated (GOCO) efforts were realigned to the 3270GC0050 / Production Base Support funding line for greater transparency.

> UNCLASSIFIED Page 1 of 11

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 6500GA0750 / Abrams Upgrade Program

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

Seconda	ary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	45	49	21	70
	Total Obligation Authority	-	-	222.350	-	222.350	1,094.468	1,156.019	784.931	1,404.395
ANG	Quantity	90	90	34	-	34	-	-	-	-
	Total Obligation Authority	1,145.837	1,247.340	577.973	-	577.973	-	-	-	-
Total:	Quantity	90	90	34	-	34	45	49	21	70
Secondary Distribution	Total Obligation Authority	1,145.837	1,247.340	800.323	-	800.323	1,094.468	1,156.019	784.931	1,404.395

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

P-1 Line Item Number / Title:

Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: | 6500GA0750 / Abrams Upgrade Program

Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Date: March 2023

Line Item MDAP/MAIS Code: N/A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	GA0750 / Abrams Upgrade Program	P-5a, P-21	Α		1,879 / 14,652.881	90 / 1,145.837	90 / 1,247.340	34 / 697.883	- / -	34 / 697.883
P-40	Total Gross/Weapon System Cost				1,879 / 14,652.881	90 / 1,145.837	90 / 1,247.340	34 / 697.883	- 1 -	34 / 697.883

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base Procurement dollars in the amount of \$697.883 million supports the following:

The upgrade and assembly of 34 Abrams tank variants to the M1A2 System Enhancement Package (SEP)v3 configuration enhances tank survivability, the automotive power pack, computer systems and night vision capabilities. The M1A2 System Enhancement Package (SEP)v3 also incorporates turret and hull armor upgrades for enhanced crew survivability. This upgrade is part of the Engineering Change Proposal (ECP) that addresses capability gaps in the tank fleet. The program upgrades will begin at Anniston Army Depot (ANAD) where Vehicle and Component Refurbishment will occur, and finish by General Dynamics Land Systems (GDLS) at the Joint Systems Manufacturing Center (JSMC) in Lima. OH. It also includes the procurement of Government Furnished Equipment, Common Remote Operated Weapon Station Low Profile (CROWS-LP), Gun Tubes, Mine Plows and Rollers, and Transmissions. The program funds the recurring costs required for the daily operation and support of the production plants to include utilities and Energy Savings Performance Contract (ESPC) payments, manufacturing studies, security, inspections, and emergency minor repairs.

The M1A2 SEPv4 is a "lethality" system improvement that provides the warfighter with significantly greater operational capabilities including the key technology 3rd Generation Forward Looking Infrared (3GEN FLIR). Advanced Procurement supports the procurement of initial SEPv4 3GEN FLIR components. The M1A2 SEPv4 is also equipped with new color cameras to the gunner/commander primary sights, an improved laser range finder, integration of a laser warning receiver system, improved lethality via Fire Control System (FCS) digital communication with a new Advanced Multi-Purpose round, improved accuracy via integration of a meteorological sensor, and improved onboard diagnostics.

Funding supports the following efforts for Field Modification: procurement and installation of field modification hardware, System Technical Support (STS) efforts, continued support of the Total Integrated Engine Revitalization (TIGER) and Transmission programs; Direct Support Electrical System Test Sets (DSESTS); upgrades to Training Aids, Devices, Simulators and Simulations (TADSS); logistics support to facilitate the installation of the improved Active Protection System, which is critical to counter anti-armor capabilities in near-peer adversaries.

The Abrams calculation for unit cost is the sum of Upgrade Vehicle Production (Basic Vehicle), Upgrade Government Furnished Equipment (GFE), Upgrade Vehicle and Component Refurbishment, and Upgrade Total Package Fielding (TPF) divided by vehicle quantity (see Exhibit P-5). The Average Procurement Unit Cost (APUC) for FY 2024 is \$16.999 million for quantity of 34 Tanks M1A2 SEPv3 using the M1A1 Situational Awareness (SA) variant as the seed for all 34 tank upgrades.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

> UNCLASSIFIED Page 3 of 11

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 01 / 20

Date: March 2023

P-1 Line Item Number / Title:
6500GA0750 / Abrams Upgrade Program

GA0750 / Abrams Upgrade Program

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code: **Prior Years** FY 2023 **Resource Summary** FY 2022 FY 2024 Base **FY 2024 OCO** FY 2024 Total Procurement Quantity (Units in Each) 1.879 90 90 34 14,652.881 Gross/Weapon System Cost (\$ in Millions) 1,145.837 1,247.340 697.883 697.883 Less PY Advance Procurement (\$ in Millions) 2,064.494 Net Procurement (P-1) (\$ in Millions) 12,588.387 1,145.837 1,247.340 697.883 697.883 2,064.494 102.440 102.440 Plus CY Advance Procurement (\$ in Millions) 14.652.881 1.145.837 Total Obligation Authority (\$ in Millions) 1.247.340 800.323 800.323 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions)

12,731.522

13,859.333

20,525.971

7,798.234

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Gross/Weapon System Unit Cost (\$ in Thousands)

	Prior Years			FY 2022			FY 2023		FY 2024 Base			FY 2024 OCO			FY 2024 Total			
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Basic Vehicle ^(†)	4,053.385	2,204	8,933.661	4,412.622	90	397.136	5,055.378	90	454.984	6,570.765	34	223.406	-	-	-	6,570.765	34	223.406
Government Furnished Equipment (GFE)	-	-	2,522.314	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Upgrade Government Furnished Equipment (GFE)	-	-	-	-	-	276.507	-	-	337.919	-	-	277.972	-	-	-	-	-	277.972
Pre-Modification Vehicle Teardown/ Refurb	-	-	682.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Upgrade Vehicle and Component Refurbishment	-	-	-	-	-	145.804	-	-	124.858	-	-	51.346	-	-	-	-	-	51.346
TPF/New Equipment Training	-	-	329.113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Package Fielding (TPF)	-	-	-	-	-	34.105	-	-	41.412	-	-	25.249	-	-	-	-	-	25.249
Field Modifications	-	-	-	-	-	246.556	-	-	245.927	-	-	68.789	-	-	-	-	-	68.789
Government Support	-	-	1,233.261	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Government Program Support	-	-	-	-	-	45.729	-	-	42.240	-	-	51.121	-	-	-	-	-	51.121
Transmissions	-	-	288.344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Forward Looking Infrared (FLIR)	-	-	476.848	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

20,525.971

-

Exhibit P-5, Cost Analysis: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

6500GA0750 / Abrams Upgrade Program

GA0750 / Abrams Upgrade Program

ID Code (A=Service Ready, B=Not Service Ready): A Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	MD	AP.	/MA	١S	Co	de:
--	----	-----	-----	----	----	-----

	F	Prior Years	S	FY 2022				FY 2023		F	Y 2024 Ba	se	F'	Y 2024 OC	0	F	Y 2024 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Industrial Base Mitigation Support/ Facilities Optimization and Maintenance	-	-	185.463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	14,651.088	-	-	1,145.837	-	-	1,247.340	-	-	697.883	-	-	-	-	-	697.883
Non Recurring Cost	,															,		
FY 2019 NDAA SEC 825 MDAP Cost Overrun	-	-	1.793	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	1.793	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	14,652.881	-	-	1,145.837	-	-	1,247.340	-	-	697.883	-	-	-	-	-	697.883
Gross/Weapon System Cost	7,798.234	1,879	14,652.881	12,731.522	90	1,145.837	13,859.333	90	1,247.340	20,525.971	34	697.883	-	-	-	20,525.971	34	697.883

Remarks:

- Abrams calculation for unit cost is the sum of Upgrade Vehicle Production (Basic Vehicle), Upgrade Government Furnished Equipment (GFE), Upgrade Vehicle and Component Refurbishment, and Upgrade Total Package Fielding (TPF) divided by vehicle quantity.
- The Average Procurement Unit Cost (APUC) for FY 2024 is \$16.999 million for a quantity of 34 M1A2 SEPv3 tanks using the M1A1 SA as the seed vehicle for all 34 tank upgrades.
- The Average Procurement Unit Cost (APUC) for FY 2023 is \$9.816 million for a quantity of 90 M1A2 SEPv3 tanks using 44 M1A2 SEPv2s and 46 M1A1s as the seed vehicles for the tank upgrades.
- The Average Procurement Unit Cost (APUC) for FY 2022 is \$9.484 million for a quantity of 90 M1A2 SEPv3 tanks using the M1A2 SEPv2 as the seed vehicle for all 90 tank upgrades.
- Beginning in FY 2022 the Transmissions and Forward Looking Infra-Red (FLIR) technology costs were rolled into the Government Furnished Equipment (GFE) line.
- Beginning in FY 2022 Abrams Industrial Base Mitigation Support/Facilities Optimization Maintenance cost element funding was realigned to the 3270GC0050 / Production Base Support funding line to provide greater transparency of those efforts.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	222.350	-	222.350
ANG	Quantity	90	90	34	-	34
	Total Obligation Authority	1,145.837	1,247.340	577.973	-	577.973
Total:	Quantity	90	90	34	-	34

Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade Program	Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program

ID Code (A=Service Ready, B=Not Service Re	ady):A	MDAP/MAIS Code	MDAP/MAIS Code:							
Seconda	ary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total				
Secondary Distribution	Total Obligation Authority	1,145.837	1,247.340	800.323	-	800.323				

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024	Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20	P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade Program	Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Basic Vehicle ^(†)		2022	GDLS / Sterling Heights, MI	SS / FPIF	TACOM-Warren	Mar 2022	Sep 2023	90	4,412.622	N		
Basic Vehicle ^(†)		2023	GDLS / Sterling Heights, MI	SS / FPIF	TACOM-Warren	Mar 2023	Sep 2024	90	5,055.378	N		
Basic Vehicle ^(†)		2024	GDLS / Sterling Heights, MI	SS / FPIF	TACOM-Warren	Mar 2024	Sep 2025	34	6,570.765	N		

^(†) indicates the presence of a P-21

Remarks:

GDLS-Prime Contractor, Sterling Heights, MI Manufactured at the Joint Systems Manufacturing Center (JSMC), Lima, OH

Ex	hik	oit P	-21, Pro	oducti	on Sc	hedul	le: Pl	3 202	4 Arn	ıy														Date	: Mar	ch 20)23				
			ation / 1	Budge	et Acti	vity /	Bud	get S	ub Ac	tivity	:		Line 00GA						gram	1								[DOE pgrad		gram	
				lements in Each)								Fiscal Y	ear 2022											Fiscal Y	ear 2023						В
			ACCEPT PRIOR BAL									C	alendar	Year 202	22								Calen	dar Year	2023				Ĺ		
0 0	R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
Bas	sic Ve	ehicle																													
Pric	or Ye	ars De	liveries: 2204	1																											
	1 2	2022	ARMY	90	0	90						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	
	1 2	2023	ARMY	90	0	90																		Α -	-	-	-	-	-	-	
	1 2	2024	ARMY	34	0	34																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

																							1							
hik	bit P	9-21, Pro	oducti	on Sc	hedu	le: PE	3 202	4 Arm	ıy														Date	: Mar	ch 20)23				
			Budge	et Acti	vity /	Budg	get Su	ıb Ac	tivity	:							le Pro	gram	l										gram	
											Fiscal Y	ear 2024											Fiscal Ye	ear 2025						В
													С	alendar	Year 202	24								Calen	dar Year	2025				Ĺ
M F R #	FY	SERVICE	PROC QTY	TO 1 OCT 2023	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M Y	JUN	J J	A U G	S E P	100	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	Z n c	J	A U G	S E P	N C E
sic Ve	ehicle			l.	-																									
or Ye	ears De	liveries: 2204	1																											
1 2	2022	ARMY	90	12	78	15	15	6	6	6	6	6	6	6	3	3														
1 2	2023	ARMY	90	0	90	-	-	-	-	-	-	-	-	-	-	-	8	8	8	7	7	8	8	8	7	7	7	7		
1 2	2024	ARMY	34	0	34						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N O L	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U L	A U G	S E P	
)	M F R #	MF FW FY ic Vehicle pr years De 1 2022 1 2023	propriation / 33A / 01 / 20 Cost E (Units I) M F R F Y SERVICE ic Vehicle or Years Deliveries: 2204 1 2022 ARMY	Cost Elements (Units in Each) PROC	Cost Elements (Units in Each)	Cost Elements (Units in Each) ACCEPT PRIOR TO 1 DUE AS OF 1 OCT ic Vehicle To 2023 ARMY 90 12 78 1 2023 ARMY 90 0 90	Cost Elements (Units in Each)	Cost Elements (Units in Each)	Propriation / Budget Activity / Budget Sub	Cost Elements (Units in Each) ACCEPT PRIOR TO 1 DUE O N D J	Propriation / Budget Activity / Budget Sub Activity: 33A / 01 / 20	P-1	P-1 Line	P-1 Line Item	P-1 Line Item Num	P-1 Line Item Number / 6500GA0750 / Abrams U	P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade	P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade Program Cost Elements (Units in Each) Fiscal Year 2024	P-1 Line Item Number / Title:	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program GA0750	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program GA0750	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program GA0750	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program GA0750 / Abrams Upgrade GA	P-1 Line Item Number / Title Title GA0750 / Abrams Upgrade Program Upgrade Upgra	P-1 Line Item Number / Title: GA0750 / Abrams Upgrade Program GA0750					

Ex	hik	oit P	P-21, Pr	oducti	on Sc	hedul	e: PB	2024	Arm	у														Date	: Maı	rch 20)23			
			i ation / 01 / 20	Budge	et Acti	vity /	Budg	et Su	b Ac	tivity	!		_	Item 0750				: de Pro	ogram	า								[DOI pgrad		gram
				lements in Each)								Fiscal Y	ear 2026	1							,			Fiscal Y	ear 2027					
0 I	F	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	Year 20 J U	26 A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	Calen A P R	M A Y	J U N	J	A U G	S E P
		ehicle	SERVICE	QII	2023	1001	•	•				K		'			1 0	<u> </u>	_ •		0	14		K	K	<u> </u>			<u> </u>	<u> </u>
Prio	r Ye	ars De	eliveries: 220	4																										
	_		ARMY	90																										
_	_		ARMY	90	90													٦												
	1 2	2024	ARMY	34	3	31	3	3	3	. 3	3	3 M	3	M 3	3	. 2	2 2	+												_
							O C T	N O V	D E C	A N	F E B	A R	A P R	A Y	N U	U	U G	S E P	O C T	N O V	E C	A N	F E B	M A R	A P R	M A Y	N N	U	A U G	S E P

Exhibit P-21, Production Schedule: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:		Item Number / Title [DODIC]:
2033A / 01 / 20	6500GA0750 / Abrams Upgrade Program	GA0750 / Abrams Upgrade Program

		Produc	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
MF	-R					Init	ial		-	Reo	rder	
Re #		MSR For 2024	1-8-5 For 2024	MAX For 2024	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
	1 GDLS - Sterling Heights, MI	1	12	35	0	14	18	32	0	5	18	23

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: | 6500GA0750 / Abrams Upgrade Program

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Gross/Weapon System Cost (\$ in Millions)	2,064.494	-	-	102.440	-	102.440	111.455	59.992	144.359	-	-	2,482.740
Net Procurement (P-1) (\$ in Millions)	2,064.494	-	-	102.440	-	102.440	111.455	59.992	144.359	-	-	2,482.740
Total Obligation Authority (\$ in Millions)	2,064.494	-	-	102.440	-	102.440	111.455	59.992	144.359	-	-	2,482.740

Description:

GA0750C / Abrams Upgrade Advance Procurement (CY) is a new start within the Abrams Upgrade Program Budget Line in FY 2024

This funding line provides Advance Procurement (AP) for the initial production of the Abrams M1A2 Systems Enhancement Program (SEP) version 4 (M1A2 SEPv4) tank.

This funding line is directly aligned and supports the Army Armored Brigade Combat Team (ABCT) Modernization priority. Specifically, the Army will modernize the Abrams tank fleet through a series of deliberate incremental Engineering Change Proposals (ECPs). The M1A2 SEPv4 tank is a follow-on to the M1A2 SEPv3 tank and is focused on lethality improvements to integrate higher functioning sensors, modules. and fire control. The 3rd Generation Forward Looking Infrared (3rd GEN FLIR) capability is the key technology improvement of the M1A2 SEPv4 tank providing significantly greater advanced target identification and the subsequent ability to engage threat targets at much greater distances and with greater accuracy. The initial procurement will include 45 each Third Generation Forward Looking Infrared (3rd GEN FLIR) Gunner's Primary Sight (GPS) and Commander's Primary Sight (CPS) and other long lead items.

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 6500GA0750 / Abrams Upgrade Program

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: 0203735A

Line Item MDAP/MAIS Code: N/A

	Exhibits Schedule			Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-10	GA0750 / Abrams Upgrade Program			1,879 / 2,064.494	90 / -	90 / -	34 / 102.440	- / -	34 / 102.440
P-40	Total Gross/Weapon System Cost			1,879 / 2,064.494	90 / -	90 / -	34 / 102.440	- 1 -	34 / 102.440

^{*}Title represents the P-10 Title for Advance Procurement.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Advance Procurement dollars in the amount of \$102.440 million will support the initial procurement of 45 each Third Generation Forward Looking Infrared (3rd GEN FLIR) Gunner's Primary Sight (GPS) and Commander's Primary Sight (CPS) sensors and other long lead items. The initial production of the GPS and CPS sensors are currently anticipated to have a lead time of approximately 24 months. The early procurement of the GPS and CPS sensors will provide a significant production efficiency by ensuring the critical technology insertions are available for the Prime Contractor (General Dynamics Land Systems (GDLS)) located at the Joint Systems Manufacturing Center (JSMC), Lima Ohio to meet the M1A2 SEPv4 production schedule and prevent a production break. This program supports the Army Armored Brigade Combat Team (ABCT) Modernization strategy and is consistent with the Army Regionally Aligned Readiness and Modernization Model (ReARMM).

Exhibit P-10, Advance Procuremen	t Requiren	nents Analysis	s (page 1	- Budget Funding Just	ificatio	on): PB 2024 Army	/ [Date: March 2023		
Appropriation / Budget Activity / B 2033A / 01 / 20	udget Sub	Activity:		Item Number / Title: 0750 / Abrams Upgrade	Progra	ım	-	P-5 Number / Title GA0750 / Abrams	- -	m
First System (2024) Award Date: November 2023	First Syste November	em (2024) Comple 2025	tion Date:			Interval Between Sy 24 Months	/stems:			
Abrams Upgrade Program		Production Le		Prior Years (Each)		FY 2022 (Each)		FY 2023 (Each)	FY 2024 (Each)	
Quantity				1,879		90		90		34
Cost Elements		When Requ		Prior Years (\$ M)		FY 2022 (\$ M)		FY 2023 (\$ M)	FY 2024 (\$ M)	
CFE										
Commander's and Gunner's Primary Sight			24	2,064.494		-		-		102.440
Total: CFE				2,064.494		-		-		102.440
Total Advance Procurement/Obligation Aut	nority			2,064.494		-		-		102.440

Exhibit P-10, Advance Procurement Requirements Analy	sis (page 2 - E	Budget Funding .	Justification):	PB 2024 Army	Date: Marc	:h 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20		em Number / Titl 50 / Abrams Upgr	-		P-5 Numbe GA0750 / A	e r / Title : Abrams Upgrad	le Program
				FY 20)24		
Cost Elements	QPA (Each)	Production Leadtime (Months)	Unit Cost	Contract Forecast Date	2024 Qty (Each)	For FY	Total Cost Request (\$ M)
CFE							
Commander's and Gunner's Primary Sight	4	5				2025	102.440
Total: CFE							102.440

Description:

Total Advance Procurement/Obligation Authority

This funding line provides Advance Procurement (AP) for the initial production of the Abrams M1A2 Systems Enhancement Program (SEP) version 4 (M1A2 SEPv4) tank.

This funding line is directly aligned and supports the Army's Armored Brigade Combat Team (ABCT) Modernization priority. Specifically, the Army will modernize the Abrams tank fleet through a series of deliberate incremental Engineering Change Proposals (ECPs). The M1A2 SEPv4 tank is a follow-on to the M1A2 SEPv3 tank and is focused on lethality improvements to integrate higher functioning sensors, modules, and fire control. The 3rd Generation Forward Looking Infrared (3rd GEN FLIR) capability is the key technology improvement of the M1A2 SEPv4 tank providing significantly greater advanced target identification and the subsequent ability to engage threat targets at much greater distances and with greater accuracy. The initial procurement will include 45 each Third Generation Forward Looking Infrared (3rd GEN FLIR) Gunner's Primary Sight (GPS) and Commander's Primary Sight (CPS) and other long lead items.

102.440

Exhibit P-40, Budget Line Item Justification: PB 2024 Army Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 6652GM1900 / VEHICLE PROTECTION SYSTEMS (VPS)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready):

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	449	-	-	-	-	-	-	-	-	-	449
Gross/Weapon System Cost (\$ in Millions)	-	75.286	-	-	-	-	-	-	-	-	-	75.286
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	75.286	-	-	-	-	-	-	-	-	-	75.286
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	75.286	-	-	-	-	-	-	-	-	-	75.286
(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Ti	ne corresponding	budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	167.675	-	-	-	-	-	-	-	-	-	167.675

Description:

The Vehicle Protection Suite (VPS) will evaluate, mature, and integrate onto multiple combat platforms, combinations of active, reactive, and passive survivability capabilities. These capabilities will leverage both Horizontal Technology Integration (HTI) principles and the Army's Modular Active Protection Controller and Framework to develop tailored vehicle survivability sets that will mitigate existing protection gaps, allow for future technology insertion to meet evolving threats, and minimize the impact to the current capabilities hosted on Army ground system platforms.

(GM1911) - VPS Base Kit with Laser Warning Receiver

The VPS Base Kit with Laser Warning Receiver (LWR) Program was designated as a Program of Record in August 2018. The Laser Warning Receiver (LWR) will detect enemy military laser aided threats and provide rapid warning of threat type and signal direction to the Modular Active Protection Controller (MAC) via the Modular Active Protection Framework (MAF) Laser Warning Receiver (LWR). It will be able to detect the broad array of laser aided threats that ground combat vehicles will face in a near peer environment Laser Range Finders (LRF), Laser Target Designators (LTD), and Laser Beam Rider Air to Ground Munitions (ATGMs). The system will alert the crew to which of the three categories of threats are targeting the system and allow for the crew to respond based on that threat. Threat timelines are critical to the response of the vehicle crew and the ability to counter the threat. The Laser Warning Receiver will provide early warning to laser aided threat elements. The VPS Base Kit with Laser Warning Receiver is currently planned to be implemented as an Engineering Change Proposal to multiple ground combat vehicle platforms.

(GM1912) - Signature Management

The Signature Management (SIGMAN) paint program was designated as a program of record in August 2018. Signature Management reduces the infrared signature of ground combat vehicles. This capability will reduce the probability of enemy detection from classified ranges and wave bands. Signature Management is designed to be integrated with no changes to the combat vehicles' baseline paint. This program is intended to be used on all combat vehicles, with future expansion to other U.S. Army vehicle systems. Signature Management is the Vehicle Protection System baseline layer for the signature management architecture. Future Vehicle Protection technologies may be layered in coordination with this program.

Passive Protection

The Passive Protection portfolio includes protection against top attack/aerial threats and medium caliber/kinetic energy threats. The Passive Protection program includes multiple implementation strategies depending on the specific capability within the passive protection portfolio.

Expedited Active Protection System (ExAPS)

UNCLASSIFIED Page 1 of 2

Exhibit P-40, Budget Line Item Justification: PB 2024 Army Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: | 6652GM1900 / VEHICLE PROTECTION SYSTEMS (VPS)

Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready):

The ExAPS program is executed under the Directed Requirement (DR) to Procure and Rapidly Field Non-Developmental Item (NDI) Active Protection Systems in support of European Deterrence Initiative requirements approved 12 October 2016. The DR included integration on Abrams, Bradley and Stryker. This program executes the platform integration, system/on-platform test activities, logistic product development, and Urgent Material Release (UMR) documentation in support of rapid fielding activities. The ExAPS program pre-positions Non-Developmental Item (NDI) systems specifically selected for each platform around the world in support of current and future engagement requirements.

Combat vehicles face numerous detection systems that operate in the infrared wavelengths. These detection systems can be vehicle mounted, carried by individuals or satellite mounted. The Signature Management - Paint program focuses on vehicle mounted detection systems that operate in specific wavelengths. Future capability may be added to the Signature Management program to address other wavelength gaps, or managed through other future camouflage and concealment programs. The Signature Management program is currently planned to be implemented as a production cut-in and/or retrofit to the enduring fleet onto multiple ground combat vehicle platforms.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	449	-	-	-	-	-	-	-	-
	Total Obligation Authority	75.286	-	-	-	-	-	-	-	-
Total:	Quantity	449	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	75.286	-	-	-	-	-	-	-	-

Justification:

There is no FY 2024 budget request for this funding line.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

0418GN0003 / PERSONAL DEFENSE WEAPON (ROLL)

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready):

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	100	-	100	2,191	2,148	1,602	564	-	6,605
Gross/Weapon System Cost (\$ in Millions)	-	7.000	-	0.510	-	0.510	4.983	4.981	3.919	1.765	-	23.158
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	7.000	-	0.510	-	0.510	4.983	4.981	3.919	1.765	-	23.158
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	7.000	-	0.510	-	0.510	4.983	4.981	3.919	1.765	-	23.158
(The following	Resource Sum	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	g budget request:	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	5.100	-	5.100	2.274	2.319	2.446	3.129	-	3.506

Description:

BLI 0418GN0003 / PERSONAL DEFENSE WEAPON (ROLL) is a new start in FY 2024.

SSN G00013 / LAUNCHED ELECTRODE STUN DEVICE is a new start within the PERSONAL DEFENSE WEAPON (ROLL) program in FY 2024

GN0003 / PERSONAL DEFENSE WEAPON (ROLL) is a New Start program in FY 2024.

G00013 / LAUNCHED ELECTRODE STUN DEVICE is a new start within the PERSONAL DEFENSE WEAPON (ROLL) Budget Line in FY 2024.

(G00013) - Launched Electronic Stun Device (LESD): The LESD is an intermediate force conducted energy weapon (CEW). Probes are fired from the attached cartridge and impact the targeted individuals clothing or body. The electric pulses generated by the CEW are conducted through the tethered probes and into the individual, thereby allowing the electromagnetic interference (EMI) effect to disable individuals at a distance. LESD allows for increased force protection and provides Military Police (MPs) with a viable escalation of force capability. This item is Code A, approved for service use.

Secondar	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	100	-	100	2,191	2,148	1,602	564
	Total Obligation Authority	7.000	-	0.510	-	0.510	4.983	4.981	3.919	1.765
Total:	Quantity	-	-	100	-	100	2,191	2,148	1,602	564
Secondary Distribution	Total Obligation Authority	7.000	-	0.510	-	0.510	4.983	4.981	3.919	1.765

Justification:

FY 2024 Base procurement dollars in the amount of \$0.510 million supports the procurement of 100 Launched Electronic Stun Devices (LESDs). Funding also supports Fielding and New Equipment Training (NET).

Notes:

	UNCL	ASSIFIED					
Exhibit P-40, Budget Line Item Justification	ı: PB 2024 Army		Date: March 2023				
Appropriation / Budget Activity / Budget Su 2033A: Procurement of W&TCV, Army / BA 02 Vehicles / BSA 10: Weapons & Other Combat	2: Weapons and Other Combat	P-1 Line Item Number / Title: 0418GN0003 / PERSONAL DEFENSE WEAPON (ROLL)					
D Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code	3 Items: N/A	Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A							
- In FY 2022, Line 118 Family of Non-Lethal Equipment (I requested to realign the increase to the Procurement of V			7.000 million "Program Increase - CEWs". An Internal Reprogramming was for proper execution and to meet congressional intent.				
- In FY 2023, Line 112 Family of Non-Lethal Equipment (I the increase is planned to realign the increase to WTCV v		ppropriation received an	additional \$3.000 million "Program Increase - CEWs" and a similar request to realign				
In accordance with Section 1815 of the FY 2008 National defense missions, domestic emergency responses, and p		iis item is necessary for u	use by the active and reserve components of the Armed Forces for homeland				

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

2472G13000 / M240 Medium Machine Gun (7.62mm)

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	1,685	480	476	19	-	19	18	12	12	-	-	2,702
Gross/Weapon System Cost (\$ in Millions)	830.939	11.017	10.500	0.425	-	0.425	0.426	0.313	0.314	-	-	853.934
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	830.939	11.017	10.500	0.425	-	0.425	0.426	0.313	0.314	-	-	853.934
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	830.939	11.017	10.500	0.425	-	0.425	0.426	0.313	0.314	-	-	853.934
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request	s are documente	d elsewhere.)			·	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	493.139	22.952	22.059	22.368	-	22.368	23.667	26.083	26.167	-	-	316.038

Description:

The M240 Medium Machine Gun (7.62mm) program supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). The M240 series machine guns are available in different configurations for various applications. The M240B Machine Gun is a ground version of the original M240 Machine Gun, 7.62MM Medium Machine Gun class weapon, designed as a coaxial/pintle-mounted weapon for tanks and light armored vehicles. The M240B also includes: a flash suppressor, front sight, carrying handle, buttstock, pistol grip, bipod, heat shield and rear sight assembly. The M240B Machine Gun may also be tripod-mounted and used in conjunction with a traversing and elevating mechanism and mount pintle. The M240H is a variant of this same family of Machine Guns and is employed as the self defensive armament subsystem for the UH-60 BLACK HAWK and CH-47 Chinook Helicopters. The M240H uses the same receiver and barrel as the M240B but has a spade grip trigger assembly. It also has a unique mounting interface and pintle to properly interface with the helicopter platform. The lighter M240L replaces the M240B in Special Forces/Rangers, Light Infantry and Airborne units. The M240L significantly reduces the weight of the current M240B, by approximately 6 pounds, while maintaining the same level of reliability. The weight reduction is accomplished through the use of lightweight materials and innovative manufacturing techniques.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	432	476	16	-	16	15	10	10	-
	Total Obligation Authority	9.967	10.500	0.333	-	0.333	0.334	0.248	0.249	-
ANG	Quantity	39	-	3	-	3	3	2	2	-
	Total Obligation Authority	0.853	-	0.092	-	0.092	0.092	0.065	0.065	-
AR	Quantity	9	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.197	-	-	-	-	-	-	-	-
Total:	Quantity	480	476	19	-	19	18	12	12	-
Secondary Distribution	Total Obligation Authority	11.017	10.500	0.425	-	0.425	0.426	0.313	0.314	-

LINCI ASSIEIED

	ONCL	ASSIFIED					
Exhibit P-40, Budget Line Item Justification: PB 2	2024 Army		Date: March 2023				
Appropriation / Budget Activity / Budget Sub Act 2033A: Procurement of W&TCV, Army / BA 02: Wea Vehicles / BSA 10: Weapons & Other Combat Vehicles	pons and Other Combat	P-1 Line Item Number / Title: 2472G13000 / M240 Medium Machine Gun (7.62mm)					
D Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code	3 Items: 0604601A	Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A							
Justification: FY 2024 Base procurement dollars in the amount of \$0.425 million	on supports the purchase of 19 M240	L Lightweight Medium Machir	ne Guns.				
In accordance with Section 1815 of the FY 2008 National Defens defense missions, domestic emergency responses, and providing	e Authorization Act (P.L.110-181), the g military support to civil authorities.	is item is necessary for use b	y the active and reserve components of the Armed Forces for homeland				

UNCLASSIFIED Page 2 of 2

Volume 1 - 132

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON

Vehicles / BSA 10: Weapons & Other Combat Vehicles SYSTEM

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604601A

Line Item MDAP/MAIS Code: 1D0

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	440	330	391	-	-	-	-	-	-	-	-	1,161
Gross/Weapon System Cost (\$ in Millions)	88.217	31.623	26.627	-	-	-	-	-	-	-	-	146.467
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	88.217	31.623	26.627	-	-	-	-	-	-	-	-	146.467
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	88.217	31.623	26.627	-	-	-	-	-	-	-	-	146.467
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)	1			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	200.493	95.827	68.100	-	-	-	-	-	-	-	-	126.156

Description:

This program supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Soldier Lethality in contested environments. The Multi-Role Anti-Armor/Anti-Personnel Weapon System (MAAWS) or, M3/M3E1 Carl Gustaf MAAWS is a man-portable shoulder-fired, 84mm reusable recoilless rifle/launcher weapon system with an effective firing range of up to 1300 meters based on ammunition used. It can be fired by one man from the standing, kneeling, sitting or prone positions and supports full and sub caliber training systems. The M3/M3E1 MAAWS is capable of engaging, neutralizing and destroying lightly armored vehicles, soft skinned vehicles, personnel in the open or defilade, and field fortifications in both open urban and rural operational environments. The M3/M3E1 MAAWS is also capable of marking threat targets with smoke for supporting weapons, obscuring threat weapons and illuminating threat targets.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	307	279	-	-	-	-	-	-	-
	Total Obligation Authority	29.413	19.000	-	-	-	-	-	-	-
ANG	Quantity	23	112	-	-	-	-	-	-	-
	Total Obligation Authority	2.210	7.627	-	-	-	-	-	-	-
Total:	Quantity	330	391	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	31.623	26.627	-	-	-	-	-	-	-

LI 3736G13101 - MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL

WEA... Army UNCLASSIFIED
Page 1 of 6

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons & Other Combat Vehicles

3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON

SYSTEM

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: 0604601A

Line Item MDAP/MAIS Code: 1D0

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM	P-5a	Α		440 / 88.217	330 / 31.623	391 / 26.627	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			440 / 88.217	330 / 31.623	391 / 26.627	- 1 -	- 1 -	- 1 -	

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

There is no FY 2024 budget request for this funding line.

The M3/M3E1 is a man-portable shoulder-fired, 84mm reusable recoilless rifle/launcher weapon system capable of engaging, neutralizing and destroying lightly armored vehicles, soft skinned vehicles, personnel in the open or defilade, and field fortifications in both open urban and rural operational environments.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objective (AAO): 2,460

LI 3736G13101 - MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL

WEA... Army **UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2033A / 02 / 10

ID Code (A=Service Ready, B=Not Service Ready): A

Plus CY Advance Procurement (\$ in Millions)

3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM

MDAP/MAIS Code:

G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM

FY 2022 **Prior Years FY 2024 Base** FY 2024 Total **Resource Summary** FY 2023 **FY 2024 OCO** Procurement Quantity (Units in Each) 440 330 391 Gross/Weapon System Cost (\$ in Millions) 88.217 31.623 26.627 --Less PY Advance Procurement (\$ in Millions) Net Procurement (P-1) (\$ in Millions) 88.217 31.623 26.627 _ _

 Total Obligation Authority (\$ in Millions)
 88.217
 31.623
 26.627

 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

 Initial Spares (\$ in Millions)
 -

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	P	rior Years	;		FY 2022			FY 2023		FY	2024 Bas	se	FY	2024 OC	0	FY	2024 Tot	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost
Hardware Cost				'	'	'		'		'				,		'		
Recurring Cost																		
M3A1 ^(†)	30.743	1,089	33.479	28.567	330	9.427	29.832	315	9.397	-	-	-	-	-	-	-	-	
Fire Control ^(†)	29.774	1,089	32.424	28.632	330	9.449	29.206	315	9.200	-	-	-	-	-	-	-	-	
Sub Caliber Adapter ^(†)	5.406	584	3.157	6.674	949	6.334	6.809	460	3.132	-	-	-	-	-	-	-	-	
Comtac Headset w/ Push talk Assembly ^(†)	1.152	600	0.691	1.164	844	0.982	1.186	630	0.747	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	69.751	-	-	26.192	-	-	22.476	-	-	-	-	-	-	-	-	
Non Recurring Cost																		
M3 OCO	33.705	88	2.966	-	-		-	-	-	-	-	-	-	-	-	-	-	
M3 OCO Fire Control	32.307	88	2.843	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
M3 OCO Sub Caliber Adapter	6.500	60	0.390	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Non Recurring Cost	-	-	6.199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware Cost	-	-	75.950	-	-	26.192	-	-	22.476	-	-	-	-	-	-	-	-	
ogistics Cost																		
Recurring Cost																		
M3A1 Transport	-	-	0.310	-	-	0.375	-	-	0.248	-	-	-	-	-	-	-	-	
Integrated Logistical Support-Crane	-	-	-	-	-	0.800	-	-	0.746	-	-	-	-	-	-	-	-	

LI 3736G13101 - MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL

WEA... Army **UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Date: March 2023

2033A / 02 / 10

3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM

Item Number / Title [DODIC]: G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	S		FY 2022			FY 2023		FY	2024 Bas	se	F۱	/ 2024 OC	0	F۱	/ 2024 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
FCS13 Contractor Fielding Support - Vendor	-	-	0.748	-	-	1.489	-	-	0.634	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	1.058	-	-	2.664	-	-	1.628	-	-	-	-	-	-	-	-	
Non Recurring Cost										,								
M3 OCO Transport	-	-	0.114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Non Recurring Cost	-	-	0.114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Logistics Cost	-	-	1.172	-	-	2.664	-	-	1.628	-	-	-	-	-	-	-	-	
Support - Contractor Logistics	Support (CLS) Cost				,	,			•					,	,		
Oversight	-	-	0.678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Contractor Logistics Support (CLS) Cost	-	-	0.678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support - Initial Spares and R	epair Parts Co	st				,	,			•					,	,		
Initial Spares and Repair Parts	-	-	3.020	-	-	1.193	-	-	0.764	-	-	-	-	-	-	-	-	-
Subtotal: Support - Initial Spares and Repair Parts Cost	-	-	3.020	-	-	1.193	-	-	0.764	-	-	-	-	-	-	-	-	
Support - New Equipment Tra	nining (NET) Co	ost			,	,	,								,	,		
Equipment	-	-	1.361	-	-	0.700	-	-	0.859	-	-	-	-	-	-	-	-	-
Subtotal: Support - New Equipment Training (NET) Cost	-	-	1.361	-	-	0.700	-	-	0.859	-	-	-	-	-	-	-	-	-
Support - Program Manageme	ent Cost						·											
Government Management	-	-	6.036	-	-	0.874	-	-	0.900	-	-	-	-	-	-	-	-	-
Subtotal: Support - Program Management Cost	-	-	6.036	-	-	0.874	-	-	0.900	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	200.493	440	88.217	95.827	330	31.623	68.100	391	26.627	-	-	-	-	-	-	-	-	-

Secondar	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	307	279	-	-	-
	Total Obligation Authority	29.413	19.000	-	-	-
ANG	Quantity	23	112	-	-	-

LI 3736G13101 - MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL

WEA... Army

UNCLASSIFIED

Volume 1 - 136 P-1 Line #18

Exhibit P-5, Cost Analysis: PB 2024 Army								
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM	Item Number / Title [DODIC]: G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM						

ID Code (A=Service Ready, B=Not Service Re	ady):A	MDAP/MAIS Code	MDAP/MAIS Code:						
Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total			
	Total Obligation Authority	2.210	7.627	-	-	-			
Total:	Quantity	330	391	-	-	-			
Secondary Distribution	Total Obligation Authority	31.623	26.627	-	-	-			

^(†) indicates the presence of a P-5a

LI 3736G13101 - MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEA...

Army

Exhibit P-5a, Procurement History and Planning: PB 2024 Army Date: March 2023 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2033A / 02 / 10 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-

PERSONNEL WEAPON SYSTEM

G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
M3A1		2022	Saab Dynamics AB / Sweden	SS / IDIQ	ACC-NJ, Picatinny Arsenal, NJ	Nov 2021	May 2022	330	28.567	Y		
M3A1		2023	Saab Dynamics AB / Sweden	SS / IDIQ	ACC-NJ, Picatinny Arsenal, NJ	Nov 2022	May 2023	315	29.832	Υ		
Fire Control		2022	Aimpoint / Sweden	MIPR	DLA Troop Support	Dec 2021	Apr 2022	330	28.632	Y		
Fire Control		2023	Aimpoint / Sweden	MIPR	DLA Troop Support	Dec 2022	Apr 2023	315	29.206	Y		
Sub Caliber Adapter		2022	Saab Dynamics AB / Sweden	SS / IDIQ	Naval Surface Warfare Center, Crane, IN	Dec 2021	Apr 2022	949	6.674	Y		
Sub Caliber Adapter		2023	Saab Dynamics AB / Sweden	SS / IDIQ	Naval Surface Warfare Center, Crane, IN	Dec 2022	Apr 2023	460	6.809	Υ		
Comtac Headset w/ Push talk Assembly		2022	Atlantic Signal, LLC / Topeka, Kansas	MIPR	DLA Troop Support	Dec 2021	Apr 2022	844	1.164	Y		
Comtac Headset w/ Push talk Assembly		2023	Atlantic Signal, LLC / Topeka, Kansas	MIPR	DLA Troop Support	Dec 2022	Apr 2023	630	1.186	Y		

Remarks:

P-21 is not required, as all hardware items procured are Commercial Off the Shelf (COTS) or Commercial Off the Shelf/Non-Developmental Items (COTS/NDI).

LI 3736G13101 - MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

5000GB2000 / Machine Gun, Cal .50 M2 Roll

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

_	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	424	-	424	30	29	27	-	-	510
Gross/Weapon System Cost (\$ in Millions)	417.874	-	-	3.420	-	3.420	0.452	0.453	0.453	-	-	422.652
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	417.874	-	-	3.420	-	3.420	0.452	0.453	0.453	-	-	422.652
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	417.874	-	-	3.420	-	3.420	0.452	0.453	0.453	-	-	422.652
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	8.066	-	8.066	15.067	15.621	16.778	-	-	828.729

Description:

BLI 5000GB2000 / Machine Gun, Cal .50 M2 Roll is a new start in FY 2024.

GB2000 / Machine Gun. Cal .50 M2 Roll is a new start in FY 2024.

The M2A1 .50 Caliber Machine Gun is an automatic, belt-fed, recoil-operated, and air-cooled crew-served weapon. It mounts on the M205 tripod and on most vehicles, and serves as an anti-personnel and anti-aircraft weapon. It is highly effective against light armored vehicles, low-and slow-flying aircraft, and small boats. The M2A1 provides automatic weapon suppressive fire for offensive and defensive purposes. It is capable of single-shot and automatic fire. The M2A1 provides enhancements to allow the Soldier to quickly change barrels without the need to reset the headspace and timing while also reducing the visible muzzle flash.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	270	-	270	13	10	11	-
	Total Obligation Authority	-	-	2.061	-	2.061	0.187	0.179	0.188	-
ANG	Quantity	-	-	98	-	98	11	13	10	-
	Total Obligation Authority	-	-	0.859	-	0.859	0.175	0.184	0.175	-
AR	Quantity	-	-	56	-	56	6	6	6	-
	Total Obligation Authority	-	-	0.500	-	0.500	0.090	0.090	0.090	-
Total:	Quantity	-	-	424	-	424	30	29	27	-
Secondary Distribution	Total Obligation Authority	-	-	3.420	-	3.420	0.452	0.453	0.453	-

Justification:

LINCI ASSIEIED

	UNCL	.A33IFIED					
Exhibit P-40, Budget Line Item Justification	n: PB 2024 Army		Date: March 2023				
Appropriation / Budget Activity / Budget St 2033A: Procurement of W&TCV, Army / BA 0 Vehicles / BSA 10: Weapons & Other Combat	2: Weapons and Other Combat	P-1 Line Item Number / Title: 5000GB2000 / Machine Gun, Cal .50 M2 Roll					
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code E	3 Items: N/A	Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A	,						
			and M48 machine guns to the modern M2A1 model for fielding. work is performed at Anniston Army Depot (Anniston, AL).	Variability in the			
GB2000 / Machine Gun, Cal .50 M2 Roll is a new start in	n FY 2024.						
In accordance with Section 1815 of the FY 2008 National defense missions, domestic emergency responses, and		is item is necessary for ι	use by the active and reserve components of the Armed Forces	for homeland			

LI 5000GB2000 - Machine Gun, Cal .50 M2 Roll Army

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

6580G02200 / Mortar Systems

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	371	204	6	6	-	6	6	10	9	9	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	488.711	33.240	8.516	8.013	-	8.013	8.549	14.563	14.218	14.229	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	488.711	33.240	8.516	8.013	-	8.013	8.549	14.563	14.218	14.229	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	488.711	33.240	8.516	8.013	-	8.013	8.549	14.563	14.218	14.229	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request:	s are documente	d elsewhere.)				•
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	1,317.280	162.941	1,419.333	1,335.500	-	1,335.500	1,424.833	1,456.300	1,579.778	1,581.000	Continuing	Continuing

Description:

Mortar Systems includes the production of 60mm Lightweight M224A1, 81mm Lightweight M252A1, and 120mm M120A1/M121 mortar weapon systems; including subsystems components M326 Mortar Stowage Kit (MSK), M1101 and M1102 trailers and associated supporting subsystems, Basic Issue Items (BII), Additional Authorized List (AAL) items and tool kits. These mortar weapon systems and associated equipment and subsystem components support the mounted and dismounted vehicle platforms in the Armor Brigade Combat Teams (ABCTs), Stryker Brigade Combat Teams (SBCTs), and Infantry Brigade Combat Teams (IBCTs). The Dismounted 120mm (M120A1) system's Mortar Stowage Kit (MSK) subsystems assembly enables rapid emplacement and displacement of the M120A1 from the M1101 and M1102 Trailers or IBCT platforms. The 60mm, 81mm and 120mm mortar weapon systems and components fulfill current and future Army Acquisition Objective (AAO) gaps, Operational Need Statement (ONS) requirements, increase of Army reorganization and Army stand up unit requirements. The M120A1 will also be mounted or integrated on the Army's current and future vehicle and trailer systems.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	204	6	6	-	6	6	10	9	9
	Total Obligation Authority	33.240	8.516	8.013	-	8.013	8.549	14.563	14.218	14.229
Total:	Quantity	204	6	6	-	6	6	10	9	9
Secondary Distribution	Total Obligation Authority	33.240	8.516	8.013	-	8.013	8.549	14.563	14.218	14.229

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

6580G02200 / Mortar Systems

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	G02202 / Mtr Wpn Sys	P-5a	Α		371 / 488.711	204 / 33.240	6 / 8.516	6 / 8.013	- / -	6 / 8.013
P-40	Total Gross/Weapon System Cost				371 / 488.711	204 / 33.240	6 / 8.516	6 / 8.013	- 1 -	6 / 8.013

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 funding total includes \$4.427 million for Base and \$3.586 million for Enduring Costs in the Base Budget.

FY 2024 Base procurement dollars in the amount of \$4.427 million will support the procurement of three (3) each M121 120mm mortar weapon systems, M298 barrels, subsystems, and support equipment such as mortar weapon system kits, Modified Work Order (MWO) kits and Basic Issue Item (BII) kits, Engineering Change Proposals (ECPs), Technical Data Packages (TDPs), technical issues and obsolescence related to weapon system safety, and the procurement of mortar weapon system kits for special force requirements and modernized mounted and dismounted platforms in the Armor Brigade Combat Teams (ABCTs) to support Armor Multi Purpose Vehicle (AMPV) requirements. Funding is essential to fill shortages of 120mm mortar weapon systems resulting from Army reorganization of ABCTs from two Battalions per Brigade to three Battalions per Brigade and increase in Army Acquisition Objective (AAO) for new stand up units.

FY 2024 Base procurement dollars in the amount of \$3.586 million procures three (3) each M121 120mm mortar weapon systems in support of the European Deterrence Initiative (EDI).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181) this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Note: FY 2024 quantity totals six (6) each full systems.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Army Date: March 2023 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 2033A / 02 / 10 6580G02200 / Mortar Systems G02202 / Mtr Wpn Sys MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready): A **Prior Years** FY 2022 FY 2023 FY 2024 Base **FY 2024 OCO** FY 2024 Total Resource Summary 371 Procurement Quantity (Units in Each) 204 6 6 Gross/Weapon System Cost (\$ in Millions) 488.711 33.240 8.516 8.013 8.013 Less PY Advance Procurement (\$ in Millions) Net Procurement (P-1) (\$ in Millions) 488.711 33.240 8.516 8.013 8.013 Plus CY Advance Procurement (\$ in Millions) _ Total Obligation Authority (\$ in Millions) 488.711 33.240 8.516 8.013 8.013 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) _ Gross/Weapon System Unit Cost (\$ in Thousands) 1,317.280 162.941 1,419.333 1,335.500 1,335.500 Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. **Prior Years** FY 2022 FY 2023 FY 2024 Base **FY 2024 OCO** FY 2024 Total Total Total Total Total Total Total **Unit Cost Unit Cost** Qty **Unit Cost** Qty **Unit Cost** Qty **Unit Cost** Qty **Unit Cost** Qty Qty Cost Cost Cost Cost Cost Cost **Cost Elements** (Each) (\$ M) (Each) (Each) (Each) (Each) (Each) (\$ M) (\$ K) (\$ K) (\$ M) (\$ K) (\$ M) (\$ K) (\$ M) (\$ K) (\$ M) (\$ K) Hardware Cost Recurring Cost 120mm (M121) Mortar 124.730 18 150.000 36 5.400 150.000 150.000 150.000 2.245 0.900 0.900 0.900 System^(†) 120mm (M120A1) 260.000 42 10.920 Mortar System(†) 120mm Cannon 33.675 306 10.304 60.011 124 7 441 60 600 28 1.697 60 600 10 0.606 60.600 10 0.606 Tubes^(†) 120mm Mortar System 59.709 344 20.540 M326 Mortar Stowage 102.712 114 11.709 120mm Mortar 18.371 306 5.621 Component 38 Light Tactical Trailer 10.000 0.380 _ 81mm Mortar System 16.371 326 5.337 -81mm Cannon Tubes 28.950 326 9.438 _ --81mm Mortar 47.528 326 15.494 Component Subtotal: Recurring Cost 81.069 23.761 2.597 _ 1.506 _ 1.506

LI 6580G02200 - Mortar Systems Army 81.069

2.423

Subtotal: Hardware Cost

Recurring Cost

Government ILS

Page 3 of 6

_

2.597

0.560

_

23.761

0.555

P-1 Line #20

1.506

0.565

Volume 1 - 143

1.506

0.565

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2033A / 02 / 10

6580G02200 / Mortar Systems

G02202 / Mtr Wpn Sys

Date: March 2023

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	P	rior Years	3		FY 2022			FY 2023		F	1 2024 Ba	se	F	/ 2024 OC	0	FY	/ 2024 Tot	.al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Subtotal: Recurring Cost	-	-	2.423	-	-	0.555	-	-	0.560	-	-	0.565	-	-	-	-	-	0.56
Subtotal: Logistics Cost	-	-	2.423	-	-	0.555	-	-	0.560	-	-	0.565	-	-	-	-	-	0.56
Support - Acceptance Testing	Cost																	
Acceptance Test	-	-	3.274	-	-	0.924	-	-	0.400	-	-	0.400	-	-	-	-	-	0.40
First Article Test	-	-	3.342	-	-	1.077	-	-	0.154	-	-	0.165	-	-	-	-	-	0.16
Subtotal: Support - Acceptance Testing Cost	-	-	6.616		-	2.001	-	-	0.554	-	-	0.565		-	-	-	-	0.56
Support - Fielding Cost																		
Fielding	-	-	3.723	-	-	1.133	-	-	1.136	-	-	1.150	-	-	-	-	-	1.150
Subtotal: Support - Fielding Cost	-	-	3.723		-	1.133	-	-	1.136	-	-	1.150		-	-	-	-	1.15
Support - Production Enginee	ering Cost																	
Production Engineering	-	-	387.674	-	-	3.906	-	-	2.635	-	-	3.127	-	-	-	-	-	3.12
Subtotal: Support - Production Engineering Cost	-	-	387.674	-	-	3.906	-	-	2.635	-	-	3.127	-	-	-	-	-	3.12
Support - Staging and Transp	ortation Cost																	
Staging and Transportation	-	-	4.680		-	1.159	-	-	0.305	-	-	0.350		-	-	-	-	0.350
Subtotal: Support - Staging and Transportation Cost	-	-	4.680	-	-	1.159	-	-	0.305	-	-	0.350	-	-	-	-	-	0.35
Support - Training Cost																		
Services	-	-	2.525	-	-	0.725	-	-	0.730	-	-	0.750	-	-	-	-	-	0.750
Subtotal: Support - Training Cost	-	-	2.525	-	-	0.725	-	-	0.730	-	-	0.750	-	-	-	-	-	0.75
Gross/Weapon System Cost	1,317.280	371	488.711	162.941	204	33.240	1,419.333	6	8.516	1,335.500	6	8.013	-	-	-	1,335.500	6	8.01

Remarks:

Note: FY 2024 quantity totals six (6) each full systems.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	204	6	6	-	6
	Total Obligation Authority	33.240	8.516	8.013	-	8.013
Total:	Quantity	204	6	6	-	6
Secondary Distribution	Total Obligation Authority	33.240	8.516	8.013	-	8.013

LI 6580G02200 - Mortar Systems Army UNCLASSIFIED
Page 4 of 6

P-1 Line #20

Volume 1 - 144

Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 6580G02200 / Mortar Systems	Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
		G02202 / Mtr Wpn Sys

LI 6580G02200 - Mortar Systems Army

Exhibit P-5a, Procurement History and Planning: PB 2024 A	Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2033A / 02 / 10	G02202 / Mtr Wpn Sys	

					•			I				
Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Revision	RFP Issue Date
120mm (M121) Mortar System		2022	EFW Inc / Fort Worth, TX	C/FFP	Picatinny Arsenal, NJ	Jun 2022	Oct 2024	36	150.000	Υ		
120mm (M121) Mortar System		2023	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Apr 2023	Aug 2025	6	150.000	Υ		
120mm (M121) Mortar System		2024	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2024	Jul 2026	6	150.000	Υ		
120mm (M120A1) Mortar System		2022	EFW Inc / Fort Worth, TX	C / FFP	Picatinny Arsenal, NJ	Jun 2022	Oct 2024	42	260.000	Υ		
120mm Cannon Tubes		2022	EFW Inc / Fort Worth, TX	C / FFP	Picatinny Arsenal, NJ	Jun 2022	Oct 2024	124	60.011	Υ		
120mm Cannon Tubes		2023	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Apr 2023	Aug 2023	28	60.600	Υ		
120mm Cannon Tubes		2024	EFW Inc / Fort Worth, TX	Option / FFP	Picatinny Arsenal, NJ	Mar 2024	Jul 2026	10	60.600	Υ		

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

6659G08100 / LOCATION & AZIMUTH DETERMINATION SYSTEM (LADS)

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	OCO	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	126	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	-	-	48.301	3.174	-	3.174	2.538	-	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	48.301	3.174	-	3.174	2.538	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	48.301	3.174	-	3.174	2.538	-	-	-	Continuing	Continuing
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	e corresponding	g budget requests	s are documente	d elsewhere.)			ĺ	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	383.341	-	-	-	-	-	-	-	Continuing	Continuing

Description:

The Location and Azimuth Determining System (LADS) provides a lightweight, portable, and deployable common inertial survey capability for field artillery cannon, rocket, missile, radar and mortar platforms that is not dependent on the Global Positioning System (GPS). LADS provides accurate location, azimuth and direction for all field artillery systems while being reliable, intuitive to use, and more cost effective than the predecessor system while operating in GPS denied and degraded environments. The LADS system is operable by multiple military occupational specialties (MOS) and can be integrated into multiple vehicles. LADS is a replacement for the legacy Improved Position and Azimuth Determining System - GPS (IPADS-G) which is no longer supportable and facing multiple obsolescence issues.

Secondary	/ Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	126	-	-	-	-	-	-	-
	Total Obligation Authority	-	48.301	3.174	-	3.174	2.538	-	-	-
Total:	Quantity	-	126	-	-	-	-	-	-	-
Secondary Distribution To	Total Obligation Authority	-	48.301	3.174	-	3.174	2.538	-	-	-

Justification:

Army

FY 2024 Base procurement funds in the amount of \$3.174 million supports the training package development, production engineering support, and fielding costs for Location and Azimuth Determining Systems (LADS). The Location and Azimuth Determining System (LADS) provides a lightweight, portable, and deployable common inertial survey capability for field artillery cannon, rocket, missile, radar and mortar platforms that is not dependent on the Global Positioning System (GPS). LADS provides accurate location, azimuth and direction for all field artillery systems while being reliable, intuitive to use, and more cost effective than the predecessor system while operating in GPS denied and degraded environments.

Net funding decrease of \$45.127 million from FY 2023 to FY 2024 is the result of completing hardware procurement.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

LI 6659G08100 - LOCATION & AZIMUTH DETERMINATION SYSTEM ...

UNCLASSIFIED

Volume 1 - 147

Exhibit P-40, Budget Line Item Justification	n: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget St 2033A: Procurement of W&TCV, Army / BA 0: Vehicles / BSA 10: Weapons & Other Combat	2: Weapons and Other Combat	P-1 Line Item N 6659G08100 / Lo	umber / Title: OCATION & AZIMUTH DETERMINATION SYSTEM (LADS)
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code	B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			

LI 6659G08100 - LOCATION & AZIMUTH DETERMINATION SYSTEM ... Army

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

8181G01501 / XM320 Grenade Launcher Module (GLM)

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	272.265	13.934	11.703	14.143	-	14.143	17.711	17.873	17.894	17.869	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	272.265	13.934	11.703	14.143	-	14.143	17.711	17.873	17.894	17.869	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	272.265	13.934	11.703	14.143	-	14.143	17.711	17.873	17.894	17.869	Continuing	Continuing
(The following l	Resource Sumn	nary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)	118.789	-	-	-	-	-	-	-	-	-	Continuing	Continuing

Description:

This program supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). The M320 Grenade Launcher Module (GLM) is a 40mm low-velocity grenade launching weapon system that is a direct replacement to all M203 series of grenade launchers on M16 Rifles and M4 Carbines. The M320 Grenade Launcher Module (GLM) is a modular system that mounts under the barrel of the rifle or carbine. This weapon can also be used in the stand-alone configuration. The M320 Grenade Launcher Module (GLM) has an integrated leaf sight and some improved safety features. This weapon also has a side-loading unrestricted breech that permits the firing of longer 40mm low-velocity projectiles (NATO standard and non-standard). The M320 Grenade Launcher Module (GLM) is more reliable and safer because of the use of a more modern double-action trigger/firing system. The new pistol grip design eliminates the need to use the M4 magazine as a hand grip. The latest innovations in lightweight material composites improve durability. Procurement of hand-held Laser Range Finder (LRF) and Grenadier Sighting System (GSS) are delivered as system components, one each per system. M320 Grenade Launcher Modules (GLMs) will also be fitted with an additional system components, such as a leaf sight, barrel, improved butt stock, and a XM100 40mm fuze programmer, to support the High Explosive Air Burst (HEAB) and M433E1 capability to be delivered by the new 40mm Family of Ammunition (FOA).

Seconda	ary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	9.462	6.308	14.143	-	14.143	17.711	17.873	17.894	17.869
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.318	5.215	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.154	0.180	-	-	-	-	-	-	-
otal:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	13.934	11.703	14.143	-	14.143	17.711	17.873	17.894	17.869

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

8181G01501 / XM320 Grenade Launcher Module (GLM)

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	G01501 / XM320 Grenade Launcher Module (GLM)	Α		- / 272.265	- / 13.934	- / 11.703	- / 14.143	- / -	- / 14.143	
P-40	Total Gross/Weapon System Cost				- / 272.265	- / 13.934	- / 11.703	- / 14.143	- 1 -	- / 14.143

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base procurement dollars in the amount of \$14.143 million supports M320 Grenade Launcher Module (GLM) system fielding efforts, procurement of Grenadier Sighting Systems (GSS), and the modification work order (MWO) for the GSS. The Grenadier Sighting Systems (GSS) provides the ability to engage targets during day or night and is capable of multiple ballistic solutions for different rounds, which can be selected by the user. The GSS also provides settings for the XM100 40mm Fuze Programmer which may be procured if available from Joint Program Executive Office (JPEO) Armaments and Ammunition after Milestone C. M320 GLM accessories / modifications may be procured to accommodate greater shock profiles associated with new ammunition if confirmed by JPEO Armaments and Ammunition

In accordance with Section 1815 of the FY 2008 National Defense Act, (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Grenadier Sighting System (GSS), a required component of M320 GLM, is in production and the Army Acquisition Objective (AAO) is the same as the M320's Grenade Launcher Army Acquisition Objective (AAO) of 56,319. The M320 Grenade Launcher (GLM) weapon AAO has been met.

UNCLASSIFIED
Page 2 of 6

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 10

P-1 Line Item Number / Title:
8181G01501 / XM320 Grenade Launcher Module (GLM)

Date: March 2023

Item Number / Title [DODIC]:
G01501 / XM320 Grenade Launcher Module (GLM)

MDAP/MAIS Code:

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	272.265	13.934	11.703	14.143	-	14.143
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	272.265	13.934	11.703	14.143	-	14.143
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	272.265	13.934	11.703	14.143	-	14.143
(The following Resource Summary rows are for information	ional purposes only. The cor	responding budget request	s are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	118.789	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

ID Code (A=Service Ready, B=Not Service Ready): A

	F	rior Years	3		FY 2022			FY 2023		FY	/ 2024 Bas	se	F	/ 2024 OC	0	FY	/ 2024 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Flyaway Cost	'							'								'	'	
Recurring Cost																		
M320A1 Grenade Launcher (GL)	4.214	45,347	191.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laser Range Finder (LRF)	0.489	46,794	22.905	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tool Set/ASL	0.499	2,669	1.333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arms Racks	1.064	3,448	3.667	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-
RIA Program Management Spt	-	-	0.824	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Buttstock & Leafsight	0.531	2,150	1.141	-	-	-	0.548	781	0.428	0.602	789	0.475	-	-	-	0.602	789	0.475
Grenadier Sighting System (GSS) ^(†)	1.900	2,150	4.085	1.900	1,523	2.894	1.900	3,881	7.374	2.422	3,947	9.558	-	-	-	2.422	3,947	9.558
Subtotal: Recurring Cost	-	-	225.039	-	-	2.894	-	-	7.802	-	-	10.033	-	-	-	-	-	10.033
Non Recurring Cost						,		,									,	
XM320 GLM Supplemental	-	-	-	-	-	5.268	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	5.268	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	225.039	-	-	8.162	-	-	7.802	-	-	10.033	-	-	-	-	-	10.033
Hardware Cost	, ,							,					·				,	
Recurring Cost																		

UNCLASSIFIED
Page 3 of 6

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

MDAP/MAIS Code:

Item Number / Title [DODIC]:

2033A / 02 / 10

8181G01501 / XM320 Grenade Launcher Module (GLM)

G01501 / XM320 Grenade Launcher

Module (GLM)

Date: March 2023

ID Code (A=Service Ready, B=Not Service Ready) : A

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	P	rior Years	6		FY 2022			FY 2023		F۱	' 2024 Bas	se e	FY	2024 OC	0	FY	2024 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
XM100 40mm Fuze Setter	-	-	-	0.841	1,916	1.611	0.851	1,222	1.040	0.950	1,224	1.163	-	-	-	0.950	1,224	1.16
Subtotal: Recurring Cost	-	-	-	-	-	1.611	-	-	1.040	-	-	1.163	-	-	-	-	-	1.16
Subtotal: Hardware Cost	-	-	-	-	-	1.611	-	-	1.040	-	-	1.163	-	-	-	-	-	1.16
Package Fielding Cost																		
Recurring Cost																		
Total Package Fielding (TPF)	-	-	4.640	-	-	0.864	-	-	0.175	-	-	0.182	-	-	-	-	-	0.18
Subtotal: Recurring Cost	-	-	4.640	-	-	0.864	-	-	0.175	-	-	0.182	-	-	-	-	-	0.18
Subtotal: Package Fielding Cost	-	-	4.640		-	0.864	-	-	0.175	-	-	0.182	-	-	-	-	-	0.18
Logistics Cost																		
Recurring Cost																		
Integrated Logistics Support (ILS)	-	-	2.271	-	-	0.285	-	-	0.443	-	-	0.460	-	-	-	-	-	0.46
New Equipment Training (NET)	-	-	0.366	-	-	0.395	-	-	0.139	-	-	0.145	-	-	-	-	-	0.14
Subtotal: Recurring Cost	-	-	2.637	-	-	0.680	-	-	0.582	-	-	0.605	-	-	-	-	-	0.60
Subtotal: Logistics Cost	-	-	2.637	-	-	0.680	-	-	0.582	-	-	0.605	-	-	-	-	-	0.60
Support - Acceptance Testing	Cost																	
First Article Test	-	-	7.403	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	7.403	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Support - Program Managem	ent Cost																	
Government Management	-	-	8.725	-	-	0.768	-	-	0.607	-	-	0.711	-	-	-	-	-	0.71
Subtotal: Support - Program Management Cost	-	-	8.725	-	-	0.768	-	-	0.607	-	-	0.711	-	-	-	-	-	0.71
Support - System Engineering	g Cost																	
System Engineering	-	-	17.942	-	-	1.749	-	-	1.497	-	-	1.447	-	-	-	-	-	1.44
Subtotal: Support - System Engineering Cost	-	-	17.942	-	-	1.749	-	-	1.497	-	-	1.447	-	-	-	-	-	1.44
Support - Training Cost																		
Equipment	-	-	5.903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Training Cost	-	-	5.903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Exhibit P-5, Cost Analysis: PB 2024 Army
Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Date: March 2023

2033A / 02 / 10

8181G01501 / XM320 Grenade Launcher Module (GLM)

Item Number / Title [DODIC]: G01501 / XM320 Grenade Launcher

Module (GLM)

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

110to: Gabtotalo di Totalo II	total distribution in this Exhibit 10 may not be oxide to dum oxidely due to reunang.																	
	F	Prior Years	s		FY 2022			FY 2023		FY	/ 2024 Ba	se	F	1 2024 OC	0	F	Y 2024 Tot	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	118.789	-	272.265	-	-	13.934	-	-	11.703	-	-	14.143	-	-	-	-	-	14.143

Remarks

Ongoing contract negotiations may impact FY 2024 unit cost on the Grenadier Sighting System (GSS) due to increase material costs, inflation and supply change issues.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	9.462	6.308	14.143	-	14.143
ANG	Quantity	-	-	-	-	-
	Total Obligation Authority	4.318	5.215	-	-	-
AR	Quantity	-	-	-	-	-
	Total Obligation Authority	0.154	0.180	-	-	-
	Quantity	-	-	-	=	-
Secondary Distribution	Total Obligation Authority	13.934	11.703	14.143	-	14.143

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024	Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8181G01501 / XM320 Grenade Launcher Module (GLM)	Item Number / Title [DODIC]: G01501 / XM320 Grenade Launcher Module (GLM)		

Cost Elements	0 0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	RFP Issue Date
Grenadier Sighting System (GSS)		2022	Wilcox / Portsmouth, NH	C / FFP	ACC-Picatinny, Picatinny, NJ	Dec 2021	Dec 2021	1,523	1.900	Y	
Grenadier Sighting System (GSS)		2023	Wilcox / Portsmouth, NH	C / FFP	ACC-Picatinny, Picatinny, NJ	Dec 2022	Dec 2022	3,881	1.900	Y	
Grenadier Sighting System (GSS)		2024	Wilcox / Portsmouth, NH	C / FFP	ACC-Picatinny, Picatinny, NJ	Jun 2024	Sep 2024	3,947	2.422	Y	

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

8190G01506 / Precision Sniper Rifle

Vehicles / BSA 10: Weapons & Other Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	817	443	231	165	-	165	223	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	14.642	9.505	6.436	5.248	-	5.248	6.049	6.109	6.115	6.121	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	14.642	9.505	6.436	5.248	-	5.248	6.049	6.109	6.115	6.121	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	14.642	9.505	6.436	5.248	-	5.248	6.049	6.109	6.115	6.121	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request:	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	17.922	21.456	27.861	31.806	-	31.806	27.126	-	-	-	Continuing	Continuing

Description:

The Precision Sniper Rifle (PSR) program supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). On 31 March 2021, the U.S. Army awarded contract W15QKN-21-D-0028 to Barrett Firearms MFG, Inc. The contract is a 5-year Firm Fixed Price (FFP) Indefinite Delivery/Indefinite Quantity (IDIQ) contract for production and delivery of the MK22 Precision Sniper Rifle (Multi-role Adaptive Design (MRAD) commercial variant) to support an Army Acquisition Objective (AAO) of 2.800 systems. This program will become the primary sniper weapon system in all Army sniper teams. It is a Non-Developmental Item (NDI) that is a multi-caliber, bolt-action sniper rifle, which is effective against personnel and materiel targets at extreme ranges. The Precision Sniper Rifle (PSR) provides increased probability of hit over the current M2010 Enhanced Sniper Rifle (ESR) configuration at distances beyond twelve-hundred (1200) meters, which enhances the sniper role in supporting combat operations and improves sniper survivability. The Precision Sniper Rifle (PSR) provides extended effective range by three-hundred (300) meters over M2010 Enhanced Sniper Rifle (ESR) out to fifteen-hundred (1500) meters. which increases stand-off distances ensuring overmatch against enemy counter sniper engagements and increases sniper capabilities. The Precision Sniper Rifle (PSR) also replaces the anti-materiel M107 semi-automatic .50 caliber sniper rifle, offering improved accuracy in a lighter weight package. The Precision Sniper Rifle (PSR) includes a sound suppressor and direct view optic with fire control capabilities. This allows snipers, when supplemented with a clip-on image intensifier or thermal sensor system, to effectively engage enemy snipers, as well as crew served and indirect fire weapons virtually undetected in any light condition.

	Secondary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	383	93	99	-	99	95	-	-	-
	Total Obligation Authority	8.211	2.591	3.124	-	3.124	2.567	2.586	4.072	4.078
ANG	Quantity	60	138	64	-	64	128	-	-	-
	Total Obligation Authority	1.294	3.845	2.061	-	2.061	3.482	3.523	2.043	2.043
AR	Quantity	-	-	2	-	2	-	-	-	-
	Total Obligation Authority	-	-	0.063	-	0.063	-	-	-	-
Total:	Quantity	443	231	165	-	165	223	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

8190G01506 / Precision Sniper Rifle

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

				FY 2024	FY 2024	FY 2024				
Secondary D	Distribution	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028
Secondary Distribution To	otal Obligation Authority	9.505	6.436	5.248	-	5.248	6.049	6.109	6.115	6.121

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

8190G01506 / Precision Sniper Rifle

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	G01506 / Precision Sniper Rifle	P-5a	Α		817 / 14.642	443 / 9.505	231 / 6.436	165 / 5.248	- / -	165 / 5.248
P-40	Total Gross/Weapon System Cost				817 / 14.642	443 / 9.505	231 / 6.436	165 / 5.248	- 1 -	165 / 5.248

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base procurement dollars in the amount of \$5.248 million support the Active Army through procurement of Precision Sniper Rifle (PSR) Systems to include but not limited to direct view optics with fire control capabilities, optical augmentation devices, suppressors, initial quantities of spare parts, and other components of end items / basic issue items to include but not limited to gage kits. The level of effort remains consistent FY 2022 - FY 2026 to support fielding and engineering support. Currently, the Army has placed four delivery orders for a total of 1,579 complete weapon systems (e.g. weapon and direct view optic). In addition, the Army has assumed management of another 833 Precision Sniper Rifle (PSR) weapons from the U.S. Army Special Operations Command (USASOC). These 833 weapons are without a direct view optic therefore, each require the optic be purchased and integrated with the weapon to complete the MK22 PSR system. The integration of the direct view optic will be performed at the Operator Level. The Army has procured 420 of the 833 optics required. The Army is planning to procure 619 complete weapon systems FY 2023 - FY 2026 and 692 individual direct view optics FY 2023-FY 2025 to meet the AAO. A quantity of 485 gage kits is required to support inspection & maintenance tasks. To date, a quantity of 358 of the 485 gage kits have been procured; however 100 of the 358 was procured by Special Operations Command (SOCOM). Precision Sniper Rifle (PSR) will become the primary anti-personnel Sniper Weapon System (SWS) in all Army Sniper Teams. It is a Non-Developmental Item (NDI) that is a multi-caliber, bolt-action sniper rifle, which is effective against personnel and materiel targets at extreme ranges. The Precision Sniper Rifle (PSR) provides increased probability of hit over the current M2010 Enhanced Sniper Rifle (ESR) configuration at distances up to twelve-hundred (1200) meters and increases range out to fifteen-hundred (1500), which enhances the sniper role in supporting combat operation

Army Acquisition Objective (AAO): 2,800

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 02 / 10

Date: March 2023

Item Number / Title [DODIC]:
8190G01506 / Precision Sniper Rifle

G01506 / Precision Sniper Rifle

ID Code (A=Service Ready, B=Not Service Ready): A		M	DAP/MAIS Code:			
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	817	443	231	165	-	165
Gross/Weapon System Cost (\$ in Millions)	14.642	9.505	6.436	5.248	-	5.248
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	14.642	9.505	6.436	5.248	-	5.248
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	14.642	9.505	6.436	5.248	-	5.248
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget reques	s are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	17.922	21.456	27.861	31.806	-	31.806

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	P	rior Years	;		FY 2022			FY 2023		FY	2024 Bas	e	F۱	2024 OC	0	FY	2024 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Flyaway Cost																		
Recurring Cost																		
Precision Sniper Rifle ^(†)	10.131	863	8.743	10.219	485	4.956	10.403	231	2.403	10.588	165	1.747	-	-	-	10.588	165	1.7
Program Management	-	-	0.300	-	-	0.332	-	-	0.616	-	-	0.418	-	-	-	-	-	0.4
Engineering Support	-	-	1.078	-	-	0.686	-	-	0.486	-	-	0.478	-	-	-	-	-	0.47
Integrated Logistics Support (ILS)	-	-	0.408	-	-	0.194	-	-	0.068	-	-	0.130	-	-	-	-	-	0.13
Total Package Fielding (TPF)	-	-	0.318	-	-	0.068	-	-	0.139	-	-	0.150	-	-	-	-	-	0.1
New Equipment Training (NET)	-	-	0.110	-	-	0.136	-	-	0.117	-	-	0.130	-	-	-	-	-	0.13
ASR Conversions	-	-	-	4.362	141	0.615	5.022	279	1.401	5.271	240	1.265	-	-	-	5.271	240	1.26
Gage Kit	-	-	-	1.870	100	0.187	2.167	54	0.117	2.280	50	0.114	-	-	-	2.280	50	0.1
Day Optical Sighting System	4.270	863	3.685	4.260	485	2.066	4.714	231	1.089	4.945	165	0.816	-	-	-	4.945	165	0.8
Subtotal: Recurring Cost	-	-	14.642	-	-	9.240	-	-	6.436	-	-	5.248	-	-	-	-	-	5.2
Non Recurring Cost																		
Supplemental	-	-	-	-	-	0.265	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	0.265	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	14.642	-	-	9.505	-	-	6.436	-	-	5.248	-	-	-	-	-	5.24
Gross/Weapon System Cost	17.922	817	14.642	21.456	443	9.505	27.861	231	6.436	31.806	165	5.248	-	-	-	31.806	165	5.24

LI 8190G01506 - Precision Sniper Rifle Army

UNCLASSIFIED
Page 4 of 6

P-1 Line #23

Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8190G01506 / Precision Sniper Rifle	Item Number / Title [DODIC]: G01506 / Precision Sniper Rifle

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

Remarks:

No P-21 form is required for the Precision Sniper Rifle (PSR), as it is a Non-Developmental Item (NDI) Commercial Off-The-Shelf (COTS) solution. Weapon System Unit Cost (U/C) reflects all system components to include the rifle scope, suppressor, optical augmentation device and all other Components Of the End Item (COEI), Basic Issue Items (BII).

FY 2022 - 2024 procurement quantities include upgrades to previously fielded Special Operations Command (SOCOM) MK 22s in to the Precision Sniper Rifles for U.S. Army Special Operation Command (USASOC) units included in the Army Acquisition Objective (AAO).

Based on actual execution of the program, P-40 Prior Years quantities should reflect 863 and the FY 2022 quantity should reflect 485 Precision Sniper Rifles and will be updated prior to the FY 2025 budget submission.

Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	383	93	99	-	99
	Total Obligation Authority	8.211	2.591	3.124	-	3.124
ANG	Quantity	60	138	64	-	64
	Total Obligation Authority	1.294	3.845	2.061	-	2.061
AR	Quantity	-	-	2	-	2
	Total Obligation Authority	-	-	0.063	-	0.063
Total:	Quantity	443	231	165	-	165
Secondary Distribution	Total Obligation Authority	9.505	6.436	5.248	-	5.248

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024	Army	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2033A / 02 / 10	8190G01506 / Precision Sniper Rifle	G01506 / Precision Sniper Rifle

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Precision Sniper Rifle		2022	Barrett Firearms / Christiana, TN	C / FFP	ACC-NJ Picatinny	Mar 2022	Sep 2022	485	10.219	N		
Precision Sniper Rifle		2023	Barrett Firearms / Christiana, TN	SS / FFP	ACC-NJ Picatinny	Jan 2023	Apr 2023	231	10.403	Υ		
Precision Sniper Rifle		2024	Barrett Firearms / Christiana, TN	SS / FFP	ACC-NJ Picatinny	Mar 2024	Jul 2024	165	10.588	Υ		

Remarks:

Some system sub-components (e.g. Direct View Optics and Gage Kits) may be procured through the Defense Logistics Agency (DLA) Tailored Logistics Support contract where practical and cost effective

Volume 1 - 160

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

UNCLASSIFIED

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

8201G13501 / Carbine

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Date: March 2023

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	40,136	699	-	-	-	-	-	-	-	-	-	40,835
Gross/Weapon System Cost (\$ in Millions)	282.338	7.226	-	0.571	-	0.571	0.570	0.340	0.340	-	-	291.385
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	282.338	7.226	-	0.571	-	0.571	0.570	0.340	0.340	-	-	291.385
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	282.338	7.226	-	0.571	-	0.571	0.570	0.340	0.340	-	-	291.385
(The following	Resource Sumi	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	7.035	10.338	-	-	-	-	-	-	-	-	-	7.136

Description:

The Carbine program supports the National Defense Strategy (NDS) of "Build a More Lethal Force" through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain.

This funding line is used to procure M4A1 Carbines for the Army and 30 round Enhanced Performance Magazine (EPM). The M4A1 Carbines are 5.56mm, gas operated, air-cooled weapons designed for lightness, speed, mobility and firepower. The M4A1 Carbine is a more compact weapon than the M16 rifle series since it uses a shorter barrel and collapsible stock. When compared to the M4 Carbine, the M4A1 Carbine has a (safe/semi-automatic/full automatic) trigger group, with a heavier barrel thickness to support increased sustained rates of fire, and an ambidextrous fire control selector. The M4A1 Carbine also includes a back-up iron sight and the adapter rail system to attach accessories and components.

				FY 2024	FY 2024	FY 2024				
Seconda	ry Distribution	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	699	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.226	-	0.049	-	0.049	0.048	0.040	0.040	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.261	-	0.261	0.131	0.045	0.045	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.261	-	0.261	0.391	0.255	0.255	-
Total:	Quantity	699	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	7.226	-	0.571	-	0.571	0.570	0.340	0.340	-

Justification:

LI 8201G13501 - Carbine

Army

UNCLASSIFIED

Page 1 of 2

P-1 Line #24

Volume 1 - 161

	01102	, toon ieb	
Exhibit P-40, Budget Line Item Justification:	PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub 2033A: Procurement of W&TCV, Army / BA 02: Vehicles / BSA 10: Weapons & Other Combat V	Weapons and Other Combat	P-1 Line Item No 8201G13501 / Ca	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code E	Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
FY 2024 Base procurement dollars in the amount of \$0.571 system.	I million supports continuous manufacturing	and production process	improvements leading to increased durability and maintainability of the weapon
In accordance with Section 1815 of the FY 2008 National D defense missions, domestic emergency responses, and pro	Defense Authorization Act (P.L. 110-181), thouding military support to civil authorities.	is item is necessary for u	use by the active and reserve components of the Armed Forces for homeland
M4A1's Army Acquisition Objective (AAO): 845,563			

 LI 8201G13501 - Carbine
 UNCLASSIFIED

 Army
 Page 2 of 2

 P-1 Line #24

 Volume 1 - 162

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

8205G14510 / Next Generation Squad Weapon

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): B

	Prior			FY 2024	FY 2024	FY 2024					То		
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total	
Procurement Quantity (Units in Each)	3,983	9,380	16,186	33,473	-	33,473	43,667	26,272	26,756	24,573	Continuing	Continuing	
Gross/Weapon System Cost (\$ in Millions)	35.822	97.087	166.623	292.850	-	292.850	397.082	251.392	256.722	236.775	Continuing	Continuing	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	35.822	97.087	166.623	292.850	-	292.850	397.082	251.392	256.722	236.775	Continuing	Continuing	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	35.822	97.087	166.623	292.850	-	292.850	397.082	251.392	256.722	236.775	Continuing	Continuing	
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request	s are documente	d elsewhere.)					
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)	8.994	10.350	10.294	8.749	-	8.749	9.093	9.569	9.595	9.636	Continuing	Continuing	

Description:

This funding line is directly aligned to the Army Soldier Lethality Modernization Priority.

This program also supports the National Defense Strategy (NDS) of "Build a More Lethal Force" through enhancement of Joint Lethality in contested environments by means of elimination and/or minimization of close combat capability erosion; specifically, relative to peer competitors, in complex terrain.

Next Generation Squad Weapons (NGSW) is a family of products that includes the M7 Rifle and M250 Automatic Rifle that integrate with the M157 Fire Control and common 6.8mm ammunition. The M7 Rifle and M250 Automatic Rifle are the planned replacements for select weapons system for individual soldiers, squads, and/or platoons, capable of defeating protected and unprotected threats. The M7 Rifle and M250 Automatic Rifle ensure increased lethality against a broad spectrum of targets beyond current/legacy weapon capabilities; increased range, accuracy, and probability of hit; reduced engagement time; suppressed flash/sound signature; and improved controllability and mobility.

The M157 Fire Control is an advanced individual fire control device that supports the M7 Rifle, M250 Automatic Rifle and other individual squad weapon systems. The M157 Fire Control increases the probability of hit and decreases engagement time through a variable-powered direct view optic with integrated range finder, ballistic calculator, and digital display capable of providing an adjusted aim point. The M157 Fire Control utilizes open architecture to deliver to an initial augmented core capability followed by increasing increments of capability over time as technology matures and evolves.

Seconda	ary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	9,380 9,390 21,619 -				21,619	29,358	9,783	8,498	7,325
	Total Obligation Authority	97.087	93.781	191.555	-	191.555	265.470	105.974	115.889	108.530
ANG	Quantity	-	6,796	11,854	-	11,854	14,309	16,489	18,258	17,248
	Total Obligation Authority	-	72.842	101.295	-	101.295	131.612	145.418	140.833	128.245
Total:	Quantity	9,380	16,186	33,473	-	33,473	43,667	26,272	26,756	24,573
Secondary Distribution	Total Obligation Authority	97.087	166.623	292.850	-	292.850	397.082	251.392	256.722	236.775

UNCLASSIFIED
Page 1 of 24

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

8205G14510 / Next Generation Squad Weapon

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Date: March 2023

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): B

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits CD N			Quantity / Total Cost (Each) / (\$ M)					
P-5	G14511 / Next Generation Squad Weapon-Automatic Rifle	P-5a, P-21	Α		- / -	399 / 3.630	711 / 10.161	1,419 / 18.665	- / -	1,419 / 18.665
P-5	G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE	P-5a, P-21	Α		- / -	3,725 / 20.862	8,336 / 45.075	17,122 / 87.426	- / -	17,122 / 87.426
P-5	G14513 / Next Generation Squad Weapon - Fire Control	P-5a, P-21	Α		3,983 / 35.822	5,256 / 72.595	7,139 / 111.387	14,932 / 186.759	- / -	14,932 / 186.759
P-40	Total Gross/Weapon System Cost				3,983 / 35.822	9,380 / 97.087	16,186 / 166.623	33,473 / 292.850	- 1 -	33,473 / 292.850

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base procurement dollars in the amount of \$292.850 supports the following:

FY 2024 Base procurement dollars in the amount of \$18.665 million supports the procurement and fielding of 1,419 M250 Automatic Rifle (NGSW-AR) which is the planned replacement for the M249 Squad Automatic Weapon (SAW) within the Close Combat Force.

FY 2024 Base procurement dollars in the amount of \$87.426 million supports the procurement and fielding of 17,122 M7-Rifle (NGSW-R) which is the planned replacement for the M4A1 Carbine within the Close Combat Force.

The M7 Rifle and M250 Automatic Rifle ensure increased lethality against a broad spectrum of targets beyond current/legacy weapons capabilities; increased range, accuracy, and probability of hit; reduced engagement time; suppressed flash/sound signature; and improved controllability and mobility. The M7 Rifle, M250 Automatic Rifle, M157 Fire Control and 6.8mm Common Cartridge are fielded concurrently to provide a squad level capability improvement to maintain overmatch against near peer enemy threats.

FY 2024 Base procurement dollars in the amount of \$186.759 million supports the procurement and fielding of 14,932 M157 Fire Control systems. The M157 Fire Control system will have both close quarter and extended range capabilities and is integrated with the M7 Rifle and the M250 Automatic Rifle. The M157 Fire Control, M250 Auto Rifle and 6.8mm Common Cartridge are fielded concurrently to provide a squad level capability improvement to maintain overmatch against near peer enemy threats.

This funding line is directly aligned to the Army Soldier Lethality Modernization Priority.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objectives (AAOs):

M7 Rifle (NGSW-R): 111,428

M250 Automatic Rifle (NGSW-AR): 13,334 M157 Fire Control (NGSW-FC): 124,749

		UNCLASSIFIEL	•					
Exhibit P-5, Cost Analysis: PB 2024 Army				Date	e: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10		tem Number / Title: 510 / Next Generatio		G14	em Number / Title [DODIC]: i14511 / Next Generation Squad /eapon-Automatic Rifle			
ID Code (A=Service Ready, B=Not Service Ready): A		М	DAP/MAIS Code:	·				
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		
Procurement Quantity (Units in Each)	-	399	711	1,419	-	1,419		
Gross/Weapon System Cost (\$ in Millions)	-	3.630	10.161	18.665	-	18.665		
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-		
Net Procurement (P-1) (\$ in Millions)	-	3.630	10.161	18.665	-	18.665		
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)	-	3.630	10.161	18.665	-	18.665		
(The following Resource Summary rows are for informational	l purposes only. The c	orresponding budget request	s are documented elsewhe	re.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-		
Gross/Weapon System Unit Cost (\$ in Thousands)	-	9.098	14.291	13.154	-	13.154		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	P	rior Years	3		FY 2022			FY 2023		F۱	/ 2024 Bas	e	FY	2024 OC	0	FY 2024 Total		
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
Flyaway Cost																		
Recurring Cost																		
Transportation	-	-	-	-	-	-	-	-	0.015	-	-	0.020	-	-	-	-	-	0.02
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	0.015	-	-	0.020	-	-	-	-	-	0.02
Non Recurring Cost									,									
NGSW First Article Test	-	-	-	-	-	0.338	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	0.338	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	-	-	-	0.338	-	-	0.015	-	-	0.020	-	-	-	-	-	0.02
Hardware Cost							,		,							,		
Recurring Cost																		
Next Generation Squad Weapon - Automatic Rifle ^(†)	-	-	-	10.869	251	2.728	11.935	711	8.486	11.337	1,419	16.087	-	-	-	11.337	1,419	16.08
Initial Spares	-	-	-	-	-	-	-	-	-	-	-	0.858	-	-	-	-	-	0.85
Subtotal: Recurring Cost	-	-	-	-	-	2.728	-	-	8.486	-	-	16.945	-	-	-	-	-	16.94
Subtotal: Hardware Cost	-	-	-	-	-	2.728	-	-	8.486	-	-	16.945	-	-	-	-	-	16.94
Package Fielding Cost											,						,	
Recurring Cost																		
Total Package Fielding	-	-	-	-	-	-	-	-	0.336	-	-	0.270	-	-	-	-	-	0.27
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	0.336	_	-	0.270	-	-	_	_	-	0.27

UNCLASSIFIED
Page 3 of 24

Exhibit P-5, Cost Analysis: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Date: March 2023

2033A / 02 / 10

8205G14510 / Next Generation Squad Weapon

Item Number / Title [DODIC]: G14511 / Next Generation Squad

Weapon-Automatic Rifle

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	3		FY 2022			FY 2023		F۱	1 2024 Ba	se	F'	Y 2024 OC	0	FY 2024 Total			
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	
Subtotal: Package Fielding Cost	-	-	-	-	-	-	-	-	0.336	-	-	0.270	-	-	-	-	-	0.270	
Logistics Cost																			
Recurring Cost																			
Integrated Logistic Support	-	-	-	-	-	0.144	-	-	0.063		-	0.150	-	-	-	-	-	0.150	
Subtotal: Recurring Cost	-	-	-	-	-	0.144	-	-	0.063	-	-	0.150	-	-	-	-	-	0.150	
Subtotal: Logistics Cost	-	-	-	-	-	0.144	-	-	0.063	-	-	0.150	-	-	-	-	-	0.150	
Support - Data Cost																			
Technical Publications	-	-	-	-	-	-	-	-	0.248	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Data Cost	-	-	-	-	-	-	-	-	0.248	-	-	-	-	-	-	-	-	-	
Support - New Equipment Tra	nining (NET) Co	ost				,						,			,				
Equipment	-	-	-	-	-	-	-	-	0.063	-	-	0.248	-	-	-	-	-	0.248	
Subtotal: Support - New Equipment Training (NET) Cost	-	-	-	-	-	-	-	-	0.063	-	-	0.248	-	-	-	-	-	0.248	
Support - Program Manageme	ent Cost																		
Government Management	-	-	-	-	-	0.170	-	-	0.428	-	-	0.432	-	-	-	-	-	0.432	
Subtotal: Support - Program Management Cost	-		-	-	-	0.170	-	-	0.428		-	0.432	-	-	-	-	-	0.432	
Support - System Engineering	Cost																		
System Engineering	-	-	-	-	-	0.250	-	-	0.522	-	-	0.600	-	-	-	-	-	0.600	
Subtotal: Support - System Engineering Cost	-	-	-	-	-	0.250	0.250 -		0.522	-	-	0.600	-	-	-	-	-	0.600	
Gross/Weapon System Cost	-	-	-	9.098	399	3.630	14.291	711	10.161	13.154	1,419	18.665	-	-	-	13.154	1,419	18.665	

Remarks:

Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission.

Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.

FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule.

Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon	Item Number / Title [DODIC]: G14511 / Next Generation Squad Weapon-Automatic Rifle

ID Code (A=Service Ready, B=Not Service Rea	ady):A					
Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	399	401	768	-	768
	Total Obligation Authority	3.630	5.888	12.209	-	12.209
ANG	Quantity	-	310	651	-	651
	Total Obligation Authority	-	4.273	6.456	-	6.456
Total:	Quantity	399	711	1,419	-	1,419
Secondary Distribution	Total Obligation Authority	3.630	10.161	18.665	-	18.665

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024	Army	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon	Item Number / Title [DODIC]: G14511 / Next Generation Squad
		Weapon-Automatic Rifle

Cost Elements	0 0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Next Generation Squad Weapon - Automatic Rifle ^(†)		2022	SIG Sauer Inc / Newington NH 03801-6801	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Dec 2022	Oct 2023	251	10.869	N		Jul 2021
Next Generation Squad Weapon - Automatic Rifle ^(†)		2023	SIG Sauer Inc / Newington NH 03801-6801	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Aug 2023	Feb 2024	711	11.935	N		
Next Generation Squad Weapon - Automatic Rifle ^(†)		2024	SIG Sauer Inc / Newington NH 03801-6801	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Jan 2024	Aug 2024	1,419	11.337	N		

^(†) indicates the presence of a P-21

Remarks

Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission.

Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.

FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule.

E	xhibit P-21, Production Schedule: PB 2024 Army												Date	: Mar	rch 20	23														
	Appropriation / Budget Activity / Budget Sub Activity: 033A / 02 / 10 Cost Elements P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon									G14	511 <i> </i>	nber / Next (Autom	Gene	ration	DIC]: n Squa	ıd														
			lements in Each)				Fiscal Year 2023										Fiscal Y	ear 2024						В						
				ACCEPT			Calendar Year 2023								Calendar Year 2024						Ë									
0 0	R	SERVICE	PROC QTY	PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	O C T	O N D J F M A M J J A S O N D J F						E	M A R	A P R	M A Y	N N	J U L	A U G	S E P	A N C E									
Ne	xt Genera	tion Squad We	apon - Au	itomatic Rif	le		,			,							,				'									
	1 2022	ARMY	251	0	251			Α -	-	-	-	-	-	-	-	-	-	60	60	60	60	11								0
	1 2023	ARMY	711	0	711		_									Α -	-	-	-	-	-	115	115	115	115	115	115	21	ĺ	0
	1 2024	ARMY	1,419	0	1,419	A						-	-	-	-	-	-	99	120	1,200										
						O C T									M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

Ex	hik	oit P	-21, Pro	oduct	ion Sc	hedu	le: PE	3 202	4 Arm	y														Date	e: Ma	rch 20	023				
-	-	-	ation / 1 2 / 10	Budge	et Acti	vity /	Budg	jet Sı	ıb Ac	tivity	1	1	Line 05G14						ıad W	eapo	n			G14	511 <i>I</i>	Next		ratior	DIC]: n Squa	ad	
				lements in Each)								Fiscal Y	ear 2025											Fiscal Y	ear 2026	1					В
			ACCEPT											C	alendar	Year 202	25								Cale	ndar Yea	r 2026				L
0 1 0 0	M F R #	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J J	A U G	S E P	A N C
Nex	t Ge	eneratio	on Squad We	apon - Au	tomatic Rif	le				,				<u>'</u>	,									,							
	1 :	2022	ARMY	251	251	0																									
\neg	1 :	2023	ARMY	711	711	0	ĺ																								
	1 :	2024	ARMY	1,419	219	1,200	120	120	120	120	120	120	120	120	120	120]														
		'		PRIOR TO 1 DUE O									A P R	M A Y	N N	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J J	A U G	S E P	

Exhibit P-21, Production Schedule: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon	Item Number / Title [DODIC]: G14511 / Next Generation Squad
		Weapon-Automatic Rifle

		Product	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Ir	nitial			Reo	order	
Ref #	Manufacturer Name - Location	MSR For 2024	1-8-5 For 2024	MAX For 2024	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	SIG Sauer Inc - Newington NH 03801-6801	20	120	300	4	2	2 6	8	1	2	6	8

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

							UI	NCLAS	SIFIED)								
Exhibit P-5, Cost	Analysis	s: PB 20	24 Army	/										Date: M	larch 202	23		
Appropriation / B 2033A / 02 / 10	Budget A	ctivity /	Budget	Sub Act	ivity:			Numbe / Next G			Weapon			G14512			DIC]: ATION SO	QUAD
ID Code (A=Service Read	dy, B=Not Servi	ice Ready) :	A			· ·			М	DAP/MAI	S Code:							
F	Resource	Summ	ary		F	Prior Yea	ars	FY 20)22	FY	2023	FY	2024 Bas	se F	Y 2024 (осо	FY 2024	Total
Procurement Quantity (Un	its in Each)						-		3,725		8,33	6	17	7,122		-		17,122
Gross/Weapon System C	ost (\$ in Million	ns)					-		20.862		45.07	5	8	7.426		-		87.426
Less PY Advance Procure	ement (\$ in Mil	llions)					-		-		-			-		-		-
Net Procurement (P-1) (\$	in Millions)						-		20.862		45.07	5	8	7.426		-		87.426
Plus CY Advance Procure	ement (\$ in Mil.	lions)					-		-		-			-		-		-
Total Obligation Authori	ty (\$ in Millions	s)					-		20.862		45.07	5	8	7.426		-		87.426
			ummarv rov	vs are for info	rmational p	urposes only	v. The corres	spondina bud	laet reauest	s are docum	ented elsewh	ere.)						
Initial Spares (\$ in Millions)							-	, ,	-		-			-		-		-
Gross/Weapon System U	nit Cost (\$ in 1	Thousands)					-		5.601		5.40	7		5.106		-		5.106
. ,	· · ·				I					I				I		l l		
Note: Subtotals or Totals	in this Exhibit	P-5 may no	ot be exact of	or sum exactl	y due to rou	ınding.									1	'		
	F	Prior Years	S		FY 2022			FY 2023		F	Y 2024 Bas)	F	Y 2024 OC	co	F	Y 2024 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Flyaway Cost	(+19	(====)	(+)	(+ - 7	(====)	(*)	(+ - 7	(===-/	(+)	(+ - 9	(=23.7)	(+)	(+ - 7	(=3.3.7)	(+)	(+ - 7	(====)	(+)
Recurring Cost																		
Transportation	-	-	-	-	-	-	-	-	0.050	-	-	0.100	-	-	-	-	-	0.100
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	0.050	-	-	0.100	-	-	-	-	-	0.100
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	0.050	-	-	0.100	-	-	-	-	-	0.100
Hardware Cost																		
Recurring Cost			ı			1				ı					1			
Next Generation Squad Weapon - Rifle (NGSW-R) ^(†)	-	-	-	5.140	2,501	12.855	4.648	8,336	38.748	4.407	17,122	75.456	-	-	-	4.407	17,122	75.456
Initial Spares	-	-	-	-	-	-	-	-	2.906	-	-	5.659	-	-	-	-	-	5.659
Subtotal: Recurring Cost	-	-	-	-	-	12.855	-	-	41.654	-	-	81.115	-	-	-	-	-	81.115
Subtotal: Hardware Cost	-	-	-	-	-	12.855	-	-	41.654	-	-	81.115	-	-	-	-	-	81.115
Package Fielding Cost																		
Recurring Cost															,			
Total Fielding Package	-	-	-	-	-	0.655	-	-	0.128	-	-	0.984	-	-	-	-	-	0.984
Subtotal: Recurring Cost	-	-	-	-	-	0.655	-	-	0.128	-	-	0.984	-	-	-	-	-	0.984
Subtotal: Package Fielding Cost	-	-	-	-	-	0.655	-	-	0.128	-	-	0.984	-	-	-	-	-	0.984
Logistics Cost																		

UNCLASSIFIED
Page 10 of 24

Recurring Cost

Exhibit P-5, Cost Analysis: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2033A / 02 / 10

8205G14510 / Next Generation Squad Weapon

G14512 / NEXT GENERATION SQUAD

WEAPON-RIFLE

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	5		FY 2022			FY 2023		FY	2024 Bas	se	F۱	/ 2024 OC	0	FY	2024 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
Integrated Logistic Support	-	-	-	-	-	0.600	-	-	0.336	-	-	0.490	-	-	-	-	-	0.49
Subtotal: Recurring Cost	-	-	-	-	-	0.600	-	-	0.336	-	-	0.490	-	-	-	-	-	0.49
Subtotal: Logistics Cost	-	-	-	-	-	0.600	-	-	0.336	-	-	0.490	-	-	-	-	-	0.49
Support - Acceptance Testing	Cost																	
First Article Test	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.500	-	-	-	-	-		-	-	-	-	-	-
Support - Data Cost					•					*			,					
Technical Publications	-	-	-	-	-	0.500	-	-	0.271	-	-	0.500	-	-	-	-	-	0.50
Subtotal: Support - Data Cost	-	-	-	-	-	0.500	-	-	0.271	-	-	0.500	-	-	-	-	-	0.50
Support - Engineering Change	e Proposals Co	ost																
Engineering Change Proposals	-	-	-	-	-	0.460	-	-	-	-	-	0.700	-	-	-	-	-	0.70
Subtotal: Support - Engineering Change Proposals Cost	-	-	-	-	-	0.460	-	-	-	-	-	0.700	-	-	-	-	-	0.70
Support - New Equipment Tra	nining (NET) Co	ost			,					*			,					
Equipment	-	-	-	-	-	0.514	-	-	0.126	-	-	0.493	-	-	-	-	-	0.49
Subtotal: Support - New Equipment Training (NET) Cost	-	-	-	-	-	0.514	-	-	0.126	-	-	0.493	-	-	-	-	-	0.49
Support - Program Manageme	ent Cost																	
Government Management	-	-	-	-	-	1.278	-	-	1.272	-	-	1.760	-	-	-	-	-	1.76
Subtotal: Support - Program Management Cost	-	-	-	-	-	1.278	-	-	1.272	-	-	1.760	-	-	-	-	-	1.76
Support - System Engineering	Cost				<u> </u>													
System Engineering	-	-	-	-	-	3.500	-	-	1.240	-	-	1.283	-	-	-	-	-	1.28
Subtotal: Support - System Engineering Cost	-	-	-	-	-	3.500	-	-	1.240	-	-	1.283	-	-	-	-	-	1.28
Gross/Weapon System Cost	-	-	-	5.601	3,725	20.862	5.407	8,336	45.075	5.106	17,122	87.426	-	-	-	5.106	17,122	87.42

Remarks:

LI 8205G14510 - Next Generation Squad Weapon

Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission. Actual contract unit price in FY22 was \$4.243K for a quantity of 2,501 rifles.

Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon	Item Number / Title [DODIC]: G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.

FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	3,725	5,251	11,223	-	11,223
	Total Obligation Authority	20.862	28.991	57.186	-	57.186
ANG	Quantity	-	3,085	5,899	-	5,899
	Total Obligation Authority	-	16.084	30.240	-	30.240
Total:	Quantity	3,725	8,336	17,122	-	17,122
Secondary Distribution	Total Obligation Authority	20.862	45.075	87.426	-	87.426

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024 A	Army	Date: March 2023
	P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon	Item Number / Title [DODIC]: G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE

Cost Elements	000	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Next Generation Squad Weapon - Rifle (NGSW-R) ^(†)		2022	SIG Sauer Inc / Newington NH 03801-6801	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Dec 2022	Oct 2023	2,501	5.140	N		Jul 2021
Next Generation Squad Weapon - Rifle (NGSW-R) ^(†)		2023	SIG Sauer Inc / Newington NH 03801-6801	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Aug 2023	Feb 2024	8,336	4.648	N		
Next Generation Squad Weapon - Rifle (NGSW-R) ^(†)		2024	SIG Sauer Inc / Newington NH 03801-6801	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Jan 2024	Aug 2024	17,122	4.407	N		

^(†) indicates the presence of a P-21

Remarks

Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission. Actual contract unit price in FY 2022 was \$4.243K for a quantity of 2,501 rifles.

Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.

FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule.

E	hibit	P-21, Pro	oduct	ion Sc	hedu	le: PE	3 202	4 Arm	ıy														Date	: Mar	ch 20	23				
		riation / 1 02 / 10	Budg	et Acti	vity /	Budç	get Si	ub Ac	tivity	:	1					Title: eratio		ad We	eapor	า			G14	Num 512 / APON	NEXT	GEN		DIC]: TION	SQU	AD
		Cost Elements (Units in Thousands)									Fiscal Y	ear 2023	3										Fiscal Y	ear 2024						В
		ACCEPT												Calendar	Year 20	23					_			Calen	dar Year	2024				L
0 0	R	PRIOR BAL TO 1 DUE O N D J PROC OCT AS OF C O E A								F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	n n	A U G	S E P	A N C E
Ne	xt Genera	tion Squad We	apon - Rit	fle (NGSW-	R)			<u>'</u>		·	·	<u>'</u>										· ·		,						
	1 2022	ARMY	2.501	.000	2.501			Α -	-	-	-	-	-	-	-	-	-	.620	.620	.620	.620	.021								.000
	1 2023	ARMY	8.336	.000	8.336								`			Α -	-	-	-	-	-	1.380	1.390	1.390	1.390	1.390	1.390	.006		.000
	1 2024	ARMY																			A -	-	-	-	-	-	-	1.426	1.426	14.270
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Exi	nibit	P-21, Pro	oducti	ion Sc	hedu	le: PE	3 2024	l Arm	у														Date	e: Ma	rch 2	023				
	-	riation / 02 / 10	Budge	et Acti	vity /	Budg	jet Su	ıb Ac	tivity:	1	1 -	Line 5G14					n Squ	ad W	eapor	า			G14	512 <i>l</i>				DIC]: ATION	SQU	JAD
		Cost E (Units in 7	lements Thousands	:)							Fiscal Ye	ear 2025											Fiscal Y	ear 2026	3					В
				ACCEPT									С	alendar	Year 202	5								Cale	ndar Yea	r 2026				L
O F O #	M E R F FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P	A N C E
Next	Genera	tion Squad We	apon - Rif	le (NGSW-	R)			· ·	·		·		· ·												•					
	2022	2 ARMY	2.501	2.501	.000																									.000
	2023	3 ARMY	8.336	8.336	.000	1																								.000
	2024	ARMY	17.122	2.852	14.270	1.427	1.427	1.427	1.427	1.427	1.427	1.427	1.427	1.427	1.427															.000
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U L	A U G	S E P	

Exhibit P-21, Production Schedule: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	8205G14510 / Next Generation Squad Weapon	Item Number / Title [DODIC]: G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE

		Product	tion Rates (Each /	Month)				Procurem	ent Lea	adtime (Months)			
MFR						lı	nitial				Reo	rder	
Ref	Manufacturer Name - Location	MSR For 2024	1-8-5 For 2024	MAX For 2024	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oc		ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
- m		WISIX 1 01 2024	1-0-5 1 01 2024	WAX 1 01 2024	11101 10 001 1	Aitel Oct I	1 -1	Aiter Ot		11101 to Oct 1	Aiter Oct 1	1 -1	Aiter Oct 1
1	SIG Sauer Inc - Newington NH 03801-6801	250	1,427	5,000	4	:	2	6	8	1	2	6	8

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Volume 1 - 178

Exhibit P-5, Cost Analysis: PB 2024 Army Date: March 2023 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2033A / 02 / 10 8205G14510 / Next Generation Squad Weapon G14513 / Next Generation Squad Weapon - Fire Control

ID Code (A=Service Ready, B=Not Service Ready): A		М	OAP/MAIS Code:			
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	3,983	5,256	7,139	14,932	-	14,932
Gross/Weapon System Cost (\$ in Millions)	35.822	72.595	111.387	186.759	-	186.759
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	35.822	72.595	111.387	186.759	-	186.759
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	35.822	72.595	111.387	186.759	-	186.759
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget request	s are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	8.994	13.812	15.603	12.507	-	12.507

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	3		FY 2022			FY 2023		F	/ 2024 Bas	se	F۱	/ 2024 OC	0	FY	/ 2024 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Flyaway Cost	'				,								'			'	'	
Recurring Cost	_																	
Transportation	-	-	-	-	-	-	-	-	0.060	-	-	0.350	-	-	-	-	-	0.35
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	0.060	-	-	0.350	-	-	-	-	-	0.35
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	0.060	-	-	0.350	-	-	-	-	-	0.350
Hardware Cost								·										
Recurring Cost																		
M157 Fire Control Systems ^(†)	12.604	1,989	25.069	12.609	5,256	66.273	13.624	7,139	97.262	10.962	14,932	163.678	-	-	-	10.962	14,932	163.67
Initial Spares	-	-	-	-	-	-	-	-	1.945	-	-	3.274	-	-	-	-	-	3.274
Engineering Data	-	-	-	-	-	0.300	-	-	-	-	-	-	-	-	-	-	-	-
Technical Publications	-	-	-	-	-	0.370	-	-	-	-	-	0.804	-	-	-	-	-	0.804
Engineering Change Proposals	-	-	-	-	-	0.350	-	-	0.130	-	-	1.900	-	-	-	-	-	1.900
Subtotal: Recurring Cost	-	-	25.069	-	-	67.293	-	-	99.337	-	-	169.656	-	-	-	-	-	169.65
Non Recurring Cost	,				,	,												
Fiirst Article Testing	-	-	10.619	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	10.619	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	35.688	-	-	67.293	-	-	99.337	-	-	169.656	-	-	-	-	-	169.65
Package Fielding Cost					,								,					
Recurring Cost																		

Exhibit P-5, Cost Analysis: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

2033A / 02 / 10

8205G14510 / Next Generation Squad Weapon

G14513 / Next Generation Squad

Weapon - Fire Control

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

	F	Prior Years	3		FY 2022			FY 2023		FY	2024 Ba	se	F	/ 2024 OC	0	FY	/ 2024 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Total Package Fielding	-	-	-	-	-	0.720	-	-	1.976	-	-	2.620	-	-	-	-	-	2.6
Subtotal: Recurring Cost	-	-	-	-	-	0.720	-	-	1.976	-	-	2.620	-	-	-	-	-	2.62
Subtotal: Package Fielding Cost	-	-	-	-	-	0.720	-	-	1.976	-	-	2.620	-	-	-	-	-	2.6
Logistics Cost	,							*							,	,		
Recurring Cost																		
Integrated Logistics Support (ILS)	-	-	0.124	-	-	0.300		-	1.419	-	-	2.180		-	-	-	-	2.18
Subtotal: Recurring Cost	-	-	0.124	-	-	0.300	-	-	1.419	-	-	2.180	-	-	-	-	-	2.18
Subtotal: Logistics Cost	-	-	0.124	-	-	0.300	-	-	1.419	-	-	2.180	-	-	-	-	-	2.18
Support - New Equipment Tra	ining (NET) Co	ost																
Equipment	-	-	-	-	-	0.695	-	-	2.104	-	-	2.800	-	-	-	-	-	2.80
Subtotal: Support - New Equipment Training (NET) Cost	-	-	-	-	-	0.695	-	-	2.104	-	-	2.800	-	-	-	-	-	2.80
Support - Program Manageme	ent Cost															,		
Government Management	-	-	0.010	-	-	1.743	-	-	4.507	-	-	4.600	-	-	-	-	-	4.60
Subtotal: Support - Program Management Cost	-	-	0.010	-	-	1.743	-	-	4.507	-	-	4.600	-	-	-	-	-	4.6
Support - System Engineering	Cost																	
System Engineering	-	-	-	-	-	1.474	-	-	1.984	-	-	2.053	-	-	-	-	-	2.05
Subtotal: Support - System Engineering Cost	-	-	-	-	-	1.474	-	-	1.984	-	-	2.053	-	-	-	-	-	2.0
Support - System Test and Ev	aluation Cost																	
Test and Evaluation Support	-	-	-	-	-	0.370	-	-	-	-	-	2.500	-	-	-	-	-	2.50
Subtotal: Support - System Test and Evaluation Cost	-	-	-	-	-	0.370	-	-	-	-	-	2.500	-	_	-	-	-	2.5
Gross/Weapon System Cost	8.994	3,983	35.822	13.812	5,256	72.595	15.603	7,139	111.387	12.507	14,932	186.759	-	-	-	12.507	14,932	186.75

Remarks:

Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission. Actual quantity procured in FY22 is 5,719.

Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.

Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon	Item Number / Title [DODIC]: G14513 / Next Generation Squad Weapon - Fire Control

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule.

Long manufacturing production lead time due to electronic supply chain challenges.

Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Army	Quantity	5,256	3,738	9,628	-	9,628
	Total Obligation Authority	72.595	58.902	122.160	-	122.160
ANG	Quantity	-	3,401	5,304	-	5,304
	Total Obligation Authority	-	52.485	64.599	-	64.599
Total:	Quantity	5,256	7,139	14,932	-	14,932
Secondary Distribution	Total Obligation Authority	72.595	111.387	186.759	-	186.759

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2024	Army	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon	Item Number / Title [DODIC]: G14513 / Next Generation Squad
		Weapon - Fire Control

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
M157 Fire Control Systems		2021	Sheltered Wings DBA Vortex Optics <i>I</i> 1 Vortex Drive Barneveld, WI 53507	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Jan 2022	Dec 2022	1,989	12.604	N		Mar 2021
M157 Fire Control Systems ^(†)		2022	Sheltered Wings DBA Vortex Optics <i>I</i> 1 Vortex Drive Barneveld, WI 53507	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Jan 2022	Dec 2022	5,256	12.609	N		
M157 Fire Control Systems ^(†)		2023	Sheltered Wings DBA Vortex Optics <i>I</i> 1 Vortex Drive Barneveld, WI 53507	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Mar 2023	Mar 2025	7,139	13.624	N		Sep 2021
M157 Fire Control Systems ^(†)		2024	Sheltered Wings DBA Vortex Optics / 1 Vortex Drive Barneveld, WI 53507	C / FFP	ACC-NJ, Picatinny Arsenal, NJ	Jan 2024	Jan 2026	14,932	10.962	N		

^(†) indicates the presence of a P-21

Remarks

Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission. Actual quantity procured in FY 2022 is 5,719.

Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.

FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule.

Long manufacturing production lead time due to electronic supply chain challenges.

Volume 1 - 182

Ex	chi	bit P	2-21, Pro	ducti	ion Sc	hedu	le: PE	3 202	4 Arm	าง														Date	: Mar	rch 20	23				
			i ation / 1 02 / 10	Budge	et Acti	vity /	Budç	get Si	ub Ac	tivity	:	1 - '		e Item 4510					ad W	/eapo	า			G14	513 <i>1</i>	nber / Next Fire (Gene	ration	DIC]: n Squa	ad	
			Cost El (Units in T	ements housands	s)							Fiscal \	Year 202	22										Fiscal Y	ear 2023						В
									Calenda	r Year 20	22								Calen	dar Year	2023				L						
0 C 0	R	ACCEPT									F E B	M A R	A P R	M A Y	N N	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	A N C E
M1	157 F	Fire Cor	trol Systems	,	·			<u>'</u>						·	·	·	<u> </u>		·		<u>'</u>										
	1	2022	ARMY	5.256	.000	5.256		_	_	Α -	-	-	-	-	-	-	-	-	-	-	.438	.438	.438	.438	.438	.438	.438	.438	.438	.438	.876
	1	2023	ARMY	7.139	.000	7.139													,					Α -	-	-	-	-	-	-	7.139
	1	2024	ARMY	14.932	.000	14.932																									14.932
						-	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	

E	hibit	P-21, Pro	oduct	on Sc	hedul	e: PE	3 202	4 Arm	ıy														Date	: Mar	ch 20	23				
		riation / 02 / 10	Budg	et Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:		Line 05G14						ad W	eapoi	n			G14	513 <i>1</i>	ber / Next (Fire (Gene	ration	DIC]: n Squa	ıd	
		Cost E (Units in 7	lements Thousands)							Fiscal Y	ear 2024											Fiscal Ye	ear 2025						В
		ACCEPT											C	alendar	Year 202	24								Calen	dar Year	2025				ı î
0 0	R	SERVICE	PROC QTY	PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J J	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	A N C E
M1	57 Fire C	ontrol Systems						·								<u> </u>								·			<u> </u>			
	1 2022	ARMY	5.256	4.380	.876	.438	.438		-																					.000
	1 2023	ARMY	7.139	.000	7.139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.300	.400	.500	.595	.595	.595	.595	3.559
	1 2024	ARMY	14.932	.000	14.932	,			Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.932
		3 ARMY 7.139 .000 7.139									M A R	A P R	M A Y	N N	n n	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	

Ext	ibit	P-21, Pr	oduct	ion Sc	hedu	le: PB	2024	4 Arm	у														Date	: Ma	rch 20)23				
	-	riation / 02 / 10	Budge	et Acti	vity /	Budg	et Su	ıb Ac	tivity:		1				ber / [·] Gene		n Squa	ad W	eapor	ı			G14	513 <i>I</i>	Next	Title Gene Contr	ratior	DIC]: n Squa	ıd	
			lements Thousands	:)							Fiscal Ye	ar 2026											Fiscal Y	ear 2027						В
			_				C	alendar	Year 202	6					_			Caler	ndar Yea	2027				Ĺ						
O F	FY	ACCEPT									M A R	A P R	M A Y	N N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	A N C E
M157	Fire C	ontrol Systems	,																		· ·					'				
1	2022	2 ARMY	5.256	5.256	.000																									.000
1	2023	3 ARMY	7.139	3.580	3.559	.595	.741	.741	.741	.741																				.000
1	2024	1 ARMY	14.932	.000	14.932	-	-	-	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.237										.000
		23 ARMY 7.139 3.580 3.559 .595 .741 .741 .741									M A R	A P R	M A Y	N U	U J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U U	A U G	S E P	

Exhibit P-21, Production Schedule: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10	P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon	Item Number / Title [DODIC]: G14513 / Next Generation Squad
		Weapon - Fire Control

		Product	tion Rates (Each /	Month)	Procurement Leadtime (Months)											
MFR						Initial Reorder										
Ref #	Manufacturer Name - Location	MSR For 2024	1-8-5 For 2024	MAX For 2024	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1				
	Sheltered Wings DBA Vortex Optics - 1 Vortex Drive Barneveld, WI 53507	150	1,290	2,500	6	9	11	20	1	4	18	22				

Remarks:

Long manufacturing production lead time due to electronic supply chain challenges.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

[&]quot;A" in the Delivery Schedule indicates the Contract Award Date.

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

8635G15325 / Handgun

Vehicles / BSA 10: Weapons & Other Combat Vehicles

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	69.136	4.930	-	0.032	-	0.032	0.033	0.007	0.007	-	-	74.145
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	69.136	4.930	-	0.032	-	0.032	0.033	0.007	0.007	-	-	74.145
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	69.136	4.930	-	0.032	-	0.032	0.033	0.007	0.007	-	-	74.145
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget requests	are documente	d elsewhere.)			·	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	3.526	-	0.200	-	0.200	0.206	0.233	0.233	-	-	41.701

Description:

The Modular Handgun System (MHS) supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). Currently, the M9 Semi-Automatic Pistol, which has been utilized as the Department of Defense's personal defense weapon since 1985, is being replaced by the new M17 Full Size Modular Handgun. The M18 Compact Size Modular Handgun will replace M11 Handguns. The Modular Handgun System is a Commercial Off the Shelf/ Non-Developmental Item (COTS/NDI) which delivers a more capable system (weapon, ammo and magazines) consistent with the planned force structure and emerging operational needs of the Army. The Modular Handgun System addresses M9 Pistol and M11 Pistol shortcomings with improved lethality, target acquisition, ergonomics, reliability, and maintainability. The Modular Handgun System is ambidextrous capable and accommodates 5th-95th percentile users via modular grips and access to all controls with one hand.

Secondary	/ Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.930	-	0.032	-	0.032	0.033	0.007	0.007	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	4.930	-	0.032	-	0.032	0.033	0.007	0.007	-

Justification:

FY 2024 Base procurement dollars in the amount of \$0.032 million supports the procurement of two-hundred (200) General Officer (GO) pistols and various spare parts for the Handgun.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Handgun's Army Acquisition Objective (AAO) of 233,429 was met in FY 2020.

UNCLASSIFIED

Page 1 of 1 P-1 Line #26

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3000GB3000 / MK-19 Grenade Machine Gun MODS

Vehicles / BSA 20: Mod of Weapons and Other Combat Vehicles

Program Elements for Code B Items: 0604601A

Other Related Program Elements: 0604802A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): B

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	57.356	35.121	-	-	-	-	-	-	-	-	-	92.477
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	57.356	35.121	-	-	-	-	-	-	-	-	-	92.477
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	57.356	35.121	-	-	-	-	-	-	-	-	-	92.477
(The following	Resource Sumi	mary rows are fo	r informational p	ourposes only. Tl	ne corresponding	budget request	s are documente	ed elsewhere.)		3		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	37.586	9.146	-	-	-	-	-	-	-	-	-	17.234

Description:

The MK-19 Grenade Machine Gun MODS program supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). The MK-19 Mod 3 is a self-powered, air-cooled, 40mm automatic grenade machine gun with a firing rate of 325-375 rounds per minute. It is used to engage point targets up to 1,500 meters and provide suppressive fire at ranges up to 2,200 meters. Various system enhancements have been identified to improve the system by increasing operational capabilities and improving reliability, readiness, maintainability, and safety. The MK-19 is fielded with the MK-93 mount for vehicle utilization and the M205 Tripod for ground deployment during static defensive operations. An ongoing system improvement is application of an improved mechanical sight thru a Modification Work Order. The improved sight decreases the MK-19 logistic burden by reducing the number of parts as well as increasing Soldier lethality thru updated ballistic solutions. The Mounted Machine Gun Optic (MMO) will provide increased accuracy by equipping the MK-19 with a combined reflex and magnified optic to mounted Combat Support & Combat Service Support (CS/CSS) troops, who currently have no optic. The Mounted Machine Gun Optic (MMO) will significantly improve target identification, target acquisition and effective engagement time at extended ranges while retaining the capability of short range, transition fire. MK-93 Improvement Kits will enhance hit performance and improve Soldier interface with optical sighting systems during on the move engagement by dampening mount movement. The XM101 Programmer Unit (PU) provides the means for fuze setting for the 40mm High Velocity, High Explosive Dual Purpose-Air Burst (HEDP-AB) capability for the MK-19.

Secondary	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	35.121	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	35.121	-	-	-	-	-	-	-	-

Justification:

There is no FY 2024 budget request for this funding line.

UNCLASSIFIED Page 1 of 2

LINER AS DE LA LINE AND DE COMA A													
Exhibit P-40, Budget Line Item Justification:	PB 2024 Army		Date: March 2023										
Appropriation / Budget Activity / Budget Sub 2033A: Procurement of W&TCV, Army / BA 02: Vehicles / BSA 20: Mod of Weapons and Other	Weapons and Other Combat	P-1 Line Item Number / Title: 3000GB3000 / MK-19 Grenade Machine Gun MODS											
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code	B Items : 0604601A	Other Related Program Elements: 0604802A										
Line Item MDAP/MAIS Code: N/A													
In accordance with Section 1815 of the FY 2008 National Edefense missions, domestic emergency responses, and professional edefense missions.		is item is necessary for use by	y the active and reserve components of the Armed Forces for homeland										

LI 3000GB3000 - MK-19 Grenade Machine Gun MODS Army

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3005GZ1700 / M777 Mods

Vehicles / BSA 20: Mod of Weapons and Other Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A Line Item MDAP/MAIS Code: N/A

Other Related Program Elements: N/A Program Elements for Code B Items: N/A

									1			1
	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	OCO	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	42	-	42	264	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	165.045	16.576	3.374	18.920	-	18.920	20.014	2.424	1.556	1.557	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	165.045	16.576	3.374	18.920	-	18.920	20.014	2.424	1.556	1.557	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	165.045	16.576	3.374	18.920	-	18.920	20.014	2.424	1.556	1.557	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	budget requests	are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	450.476	-	450.476	75.811	-	-	-	Continuing	Continuing

Description:

The Lightweight 155mm Howitzer (LW155), also known as the M777A2, is a Joint Service program between the United States Marine Corps (USMC) and the United States Army. The M777A2 provides direct, reinforcing, and general support fires to maneuver forces and direct support artillery. The M777A2 was first introduced into the US Marine Corps (USMC) in 2005 and the Marines have fielded the howitzer to all active units. The Army has fielded the howitzer to its Stryker Brigade Combat teams (SBCT) and Infantry Brigade Combat teams (IBCT) including the National Guard. The M777A2 saw extensive action in Afghanistan and received high marks for its performance. The M777A2 fires unassisted projectiles to a range of 30 kilometers (km) and assisted projectiles to 40km. The addition of the digital fire control system. enables the weapon to program and fire the improved Excalibur precision-quided munitions to ranges in excess of 40km with better than 10-meter Circular Error Probable (CEP) accuracy. The LW155 is the first ground combat system whose major structures are made of high strength titanium alloy and the system makes extensive use of hydraulics to operate the breech, load tray, recoil and wheel arms. The combination of titanium structures and the use of hydraulic systems resulted in a significant weight savings of 7,000 pounds over the legacy M198 howitzer system. Compared to the M198, the LW155 emplaces three-times faster and displaces four-times faster. It traverses 32-percent more terrain worldwide and is 70-percent more survivable than the M198. It is a successful joint service program between the USMC and U.S. Army working together to develop, produce, field, and sustain the howitzer. The howitzer will be going through modernization of electronic components in its digital fire control system to ensure continued interoperability and survivability on the battlefield.

This budget line item also provides funding for various system critical Digital Fire Control System (DFCS) hardware and software modifications including, but not limited to, modern Software Defined Radios, Mission Computers, Chief of Section Display, and Assured Position, Navigation and Timing (A-PNT) (aka: M-Code).

Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	42	-	42	162	-	-	-
	Total Obligation Authority	16.576	3.374	12.017	-	12.017	10.335	1.389	1.556	1.557
ANG	Quantity	-	-	-	-	-	102	-	-	-
	Total Obligation Authority	-	-	6.903	-	6.903	9.679	1.035	-	-
Total:	Quantity	-	-	42	-	42	264	-	-	-
Secondary Distribution	Total Obligation Authority	16.576	3.374	18.920	-	18.920	20.014	2.424	1.556	1.557

UNCLASSIFIED

P-1 Line #28

LI 3005GZ1700 - M777 Mods Page 1 of 8 Army

Program Elements for Code B Items: N/A

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Other Related Program Elements: N/A

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3005GZ1700 / M777 Mods

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title* Su	ubexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-3a	GZ1700 / M777 Mods (Increase Performance)		Α		- / 165.045	- / 16.576	- /3.374	42 / 18.920	- / -	42 / 18.920
P-40	Total Gross/Weapon System Cost				- / 165.045	- / 16.576	- / 3.374	42 / 18.920	- 1 -	42 / 18.920
	Exhibits Schedule				FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title* Su	ubexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-3a	GZ1700 / M777 Mods (Increase Performance)		Α		264 / 20.014	- /2.424	- / 1.556	- / 1.557	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				264 / 20.014	- / 2.424	- /1.556	- / 1.557	Continuing	Continuing

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 funding in the amount of \$18.920 million supports the integration of modernized Digital Fire Control System (DFCS) components and Assured Position, Navigation and Timing (APNT) compliance initiatives onto the M777 howitzer platform; continues the retrofit of previously procured hardware and software modifications; and other modernization efforts to the Digital Fire Control System (DFCS). APNT compliance initiatives will provide the M777A2 howitzer with the continued ability to conduct precision and near precision fires in a Global Positioning System (GPS) contested environment while maintaining current operational tempo. Modernization efforts to the Digital Fire Control System (DFCS) will enable continued system readiness.

Net funding increase of \$15.546 million from FY 2023 to FY 2024 reflects the commencement of the integration of the Digital Fire Control System (DFCS) operating system hardware and software modernization and procurement of radio integration kits to support operational requirements.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

UNCLASSIFIED

Page 2 of 8 P-1 Line #28

Exhibit P-3a, Individual Modification: PB 2024 ArmyDate: March 2023Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:Modification Number / Title:2033A / 02 / 203005GZ1700 / M777 ModsGZ1700 / M777 Mods

ID Code (A=Service Ready, B=Not Service Ready)	: A					MDAP/MA	IS Code:					
	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	42	-	42	264	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	165.045	16.576	3.374	18.920	-	18.920	20.014	2.424	1.556	1.557	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	165.045	16.576	3.374	18.920	-	18.920	20.014	2.424	1.556	1.557	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	165.045	16.576	3.374	18.920	-	18.920	20.014	2.424	1.556	1.557	Continuing	Continuing
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)		:		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	-	_	450,476	_	450.476	75.811	_	-	_	Continuina	Continuina

Description:

Modification 1- Retrofit and Composite Fielding Activities: Funding will support field retrofits of previously contracted Engineering Change Proposals for items such as the Mission Computer (MSC-R), Chief of Section Display (CSD-R), upgraded software, and radio hardware integration kits.

Modification 2 - Digital Fire Control System Modifications: Funding will address security and supportability issues through Software and Hardware Engineering Change Proposals. Specific Digital Fire Control Electronic Components to be procured and fielded such as: New Digital Fire Control Computers and Display Units and Radio Integration Kits. These components are required to support security and obsolescence issues and maintain current operational tempo.

				FY 2024	FY 2024	FY 2024				
Seconda	ry Distribution	FY 2022	FY 2023	Base	осо	Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	42	-	42	162	-	-	-
	Total Obligation Authority	16.576	3.374	12.017	-	12.017	10.335	1.389	1.556	1.557
ANG	Quantity	-	-	-	-	-	102	-	-	-
	Total Obligation Authority	-	-	6.903	-	6.903	9.679	1.035	-	-
Total:	Quantity	-	-	42	-	42	264	-	-	-
Secondary Distribution	Total Obligation Authority	16.576	3.374	18.920	-	18.920	20.014	2.424	1.556	1.557

Exhibit P-3a, Individual Modification: PB 2024 Army Date: March 2023 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: **Modification Number / Title:** 3005GZ1700 / M777 Mods 2033A / 02 / 20 GZ1700 / M777 Mods ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code: Related RDT&E PEs: Models of Systems Affected: M777A2 **Modification Type:** Increase Performance FY 2024 То FY 2024 FY 2024 **Prior Years** FY 2022 FY 2023 oco FY 2025 FY 2026 **FY 2028** Base Total FY 2027 Complete Total Qtv (Each) I Qty (Each) I Qtv (Each) I **Financial Plan** Total Cost (\$ M) | Total Cost (\$ Total Cost (\$ M) | Total Cost (\$ M) Total Cost (\$ M) Total Cost (\$ M) **Procurement** Modification Item 1 of 3: Retrofit and Composite Fielding Activities A Kits Recurring Retrofit & Composite Fielding Activities - /27.244 - / 0.600 - /1.450 - /2.150 - 1 -12.150 - / 1.896 - *I* 1.597 - / 1.556 - / 1.557 Continuina Continuina - /1.557 - /27.244 - /0.600 - /1.450 - /2.150 / 2.150 - /1.896 - /1.597 - /1.556 Subtotal: Recurring - / -Continuina Continuing Subtotal: Retrofit and Composite Fielding Activities - /27.244 - /0.600 - /1.450 - /2.150 - / -- /2.150 - /1.896 - /1.597 - /1.556 - /1.557 Continuina Continuina Modification Item 2 of 3: Digitial Fire Control System Modifications A Kits Recurring **APNT Intiatives** - 1 -- 1 -- 1 -162 / 7.306 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -Continuing Continuing - / -- / -- / -- / -- / -- / -162 / 7.306 - / -- / -Subtotal: Recurring - / -Continuina Continuina Non-Recurring **Engineering Change Proposal** - / 12.895 - 1 -- I 1.924 - / 12.656 - 1 -- / 12.656 102 / 10.812 - / 0.827 - 1 -- 1 -Continuing Continuing - 1 -- 1 -- / -- 1 -- 1 -- / 15.976 - 1 -42 / 4.114 42 / 4.114 - 1 -42 / 20.090 Radio Integration Kits - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- /2.700 Software Integration - /2.700 - 1 -- 1 -490 / 9.287 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -490 / 9.287 **Electronic Communication Components** 490 / 24.882 - /15.976 - /1.924 42 / 16.770 - / -42 / 16.770 102 / 10.812 - /0.827 - / -- / -Subtotal: Non-Recurring Continuina Continuing 490 / 24.882 - /15.976 - /1.924 42 / 16.770 - / -42 / 16.770 264 / 18.118 - /0.827 - / -- / -Subtotal: Digitial Fire Control System Modifications Continuing Continuing Modification Item 3 of 3: Previous Modifications A Kits Non-Recurring - / 112.919 - 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- 1 -- / 112.919 Previous Modifications - 1 -- 1 -- 1 -- /112.919 - / -- / -- / -- / -- / -- / -- / -- / -- / -- / -- /112.919 Subtotal: Non-Recurring - /112.919 - / -- / -- / -- / -- / -- / -- / -- / -- / -- / -- /112.919 Subtotal: Previous Modifications - /2.424 Subtotal: Procurement, All Modification Items 490 / 165.045 - /16.576 - /3.374 42 / 18.920 42 / 18.920 264 / 20.014 - /1.556 - /1.557 Continuing Continuina - / -Installation

LI 3005GZ1700 - M777 Mods Army - / -

- / -

- / -

Subtotal: Installation

Total

UNCLASSIFIED

- / -

P-1 Line #28 Volume 1 - 193

- / -

- / -

- / -

- / -

- / -

- / -

- / -

- / -

Exhibit P-3a, Individual Modification: PB 2024 Army		Date: March 2023
1111	P-1 Line Item Number / Title:	Modification Number / Title:
2033A / 02 / 20	3005GZ1700 / M777 Mods	GZ1700 / M777 Mods

ID Code (A=Service Ready, B=Not Service Ready): A	MDAP/MAIS Code:
---	-----------------

Models of Systems Affected: M777A2		Modifi	cation Typ	e: Increas	e Performa	ınce	Re	lated RDT	&E PEs:				
				FY 2024	FY 2024	FY 2024					То		
	Prior Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total	1
Financial Plan	Qty (Each) I Total Cost (\$ M)												
Total Cost (Procurement + Support + Installation)	165.045	16.576	3.374	18.920	-	18.920	20.014	2.424	1.556	1.557	Continuing	Continuing	

P-1 Line #28

Exhibit P-3a. Indiv	idual Modification: P	B 2024 Armv				Date: March 2023	
·	dget Activity / Budge	<u>*</u>	P-1 Line Item Nu 3005GZ1700 / M7			Modification Numb	
ID Code (A=Service Ready,	B=Not Service Ready) : A			MDAP/MAIS Co	ode:	- 1	
Modification Item 1 of 3	3: Retrofit and Composite Fi	elding Activities					
Manufacturer Informati	on						
Manufacturer Name: TB	D			Manufacturer Location: TE	3D		
Administrative Leadtime	(in Months): 3			Production Leadtime (in N	fonths): 2		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jan 2022	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates	Mar 2022	Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028
Installation Information	1						
Method of Implementat	ion (Organic): Contract Op	tions			Installation (Quantity: 0	
					,		

			UNCL	ASSIFIED			
Exhibit P-3a, Individ	dual Modification: Pl	B 2024 Army				Date: March 2023	
Appropriation / Buo 2033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu 3005GZ1700 / M7			Modification Number GZ1700 / M777 Mod	
ID Code (A=Service Ready, E	B=Not Service Ready): A		•	MDAP/MAIS Co	ode:	·	
Modification Item 2 of 3:	Digitial Fire Control System	m Modifications		<u> </u>			
Manufacturer Information	on						
Manufacturer Name: Mult	iple Vendors			Manufacturer Location: Mo	ultiple Locations		
Administrative Leadtime (in Months): 3			Production Leadtime (in M			
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	May 2022		May 2024	May 2025			
Delivery Dates	Jul 2022		Jul 2024	Jul 2025			
Installation Information							
Method of Implementation	on (Organic): Contracts				Installation	Quantity: 0	
					,		

Exhibit P-3a, Individual Modification: PB 2024 Army Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20 Decla (a-Service Ready, 3t-blot Service Ready): A Modification Rumber / Title: 3005G21700 / M777 Mods Decla (a-Service Ready, 3t-blot Service Ready): A Modification Rum 3 of 3: Previous Modifications Manufacturer Information Manufacturer Name: Various Administrative Leadtine (in Months): Production Leadtine (in Months): Production Leadtine (in Months): Dates FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 Installation Information Method of Implementation (Organic): Component hardware procurements Installation Quantity: 0					
2033A / 02 / 20 D Code (A=Service Ready), B=Not Service Ready): A Modification Item 3 of 3: Previous Modifications Manufacturer Information Manufacturer Name: Various Administrative Leadtime (in Months): Dates FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 Contract Dates Delivery Dates Delivery Dates Dates Installation Information					
Anufacturer Information Anufacturer Name: Various Anufacturer Location: Various	FY 2028				
nufacturer Information nufacturer Name: Various	FY 2028				
Manufacturer Location: Various ministrative Leadtime (in Months): Production Leadtime (in Months): Pry 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 Intract Dates livery Dates Atallation Information	FY 2028				
Dates FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 Intract Dates Very Dates Adulation Information	FY 2028				
Dates FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 Intract Dates ivery Dates tallation Information	FY 2028				
ntract Dates livery Dates tallation Information	FY 2028				
stallation Information					
stallation Information					
thod of Implementation (Organic): Component hardware procurements Installation Quantity: 0					
thod of Implementation (Organic): Component hardware procurements Installation Quantity: 0					

LI 3005GZ1700 - M777 Mods Army

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3015GB4000 / M2 50 Cal Machine Gun MODS

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

Line item MDAI /MAIO Oode: N/A												
	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	407.300	7.076	3.000	-	-	-	-	-	-	-	-	417.376
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	407.300	7.076	3.000	-	-	-	-	-	-	-	-	417.376
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	407.300	7.076	3.000	-	-	-	-	-	-	-	-	417.376
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Tl	ne corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	=	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	974.402	15.655	-	-	-	-	-	-	-	-	-	479.743

Description:

The M2 .50 Cal Machine Gun MODS program supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). The M2A1 Quick Change Barrel (QCB) Kit provides enhancements for the .50 Caliber M2 Heavy Barrel Machine Gun to provide the Soldier with the ability to quickly change barrels without the need to reset the headspace and timing and also reduces the visible muzzle flash. In a dismounted role, the M2/MK19 Machine Guns utilize the M205 Lightweight Tripod which reduces the Soldier burden by 16 pounds (32%) over the current M3 Tripod which weighs 50 pounds (including traverse and elevation mechanisms and pintle). The M205 Tripod provides integral traverse and elevation mechanisms for easier, more accurate target engagement and adjustable traverse limit stop for night time missions. The Mounted Machine Gun Optic (MMO) will provide increased accuracy by equipping Medium/Heavy Machine Guns, including the M2/M2A1, with a combined reflex and magnified optic to mounted Combat Support & Combat Service Support (CS/CSS) troops, who currently have no optic. The Mounted Machine Gun Optic (MMO) will significantly improve target identification, target acquisition and effective engagement time at extended ranges while retaining the capability of short range, transition fire. The MK93 is the primary mount used to interface the M2/M2A1 with all Army vehicles and ground mounts. MK93 Improvement Kits will enhance hit performance and improve Soldier interface with optical sighting systems during on the move engagement by dampening mount movement.

Secondary	/ Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	7.076	3.000	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	7.076	3.000	-	-	-	-	-	-	-

Justification:

There is no FY 2024 budget request for this funding line.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

UNCLASSIFIED
Page 1 of 2

Exhibit P-40, Budget Line Item Justification	: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Su 2033A: Procurement of W&TCV, Army / BA 02 Vehicles / BSA 20: Mod of Weapons and Othe	: Weapons and Other Combat	P-1 Line Item Num 3015GB4000 / M2 5	ber / Title: 60 Cal Machine Gun MODS	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code	B Items: 0604601A	Other Related Program Elements: N/A	
Line Item MDAP/MAIS Code: N/A				

LI 3015GB4000 - M2 50 Cal Machine Gun MODS Army

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3181GZ1500 / Sniper Rifles Modifications

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Program Elements for Code B Items: 0604601A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): B

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	50.863	0.080	-	-	-	-	-	0.019	0.019	0.019	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	50.863	0.080	-	-	-	-	-	0.019	0.019	0.019	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	50.863	0.080	-	-	-	-	-	0.019	0.019	0.019	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)				1
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Sniper Rifles Modifications program supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). The program conducts investigative engineering studies, procure modifications or conversions of sniper weapons and related system components, Advanced Sniper Accessory Kit (ASAK) items, M151 Spotting Scope System, Tactical Tripod Kit (TTK) components, sniper optics, laser range finders, and ballistic compensating systems. Initial buys of items to support or meet operational needs and lighten sniper load. It includes the procurement of rifle scope optics, spotting scopes, an accompanying Accessory Interface Mounting kit (AIM), Improved Sniper Tripod, improved capabilities including an enhanced common reticle pattern and special tool kit.

This program also provides improved ancillary equipment such as intelligent rails, ballistic chronographs, Ballistic Weather Meter (BWM), Sniper Scope Covert Cap, Weapon Tripod Cradle, Sniper Data Board, improved Sniper Buttstock, Sniper Tool Kit, Sniper Accessory Mount, improved and/or recalibrated barrels, fire controls, muzzles with suppressors, other components, and support costs.

The current Army fleet of sniper weapons, consisting of the M14 Enhanced Battle Rifle (EBR) as interim Squad Designated Marksman weapon, the M110 Semi-Automatic Sniper System (SASS), the M2010 Enhanced Sniper Rifle (ESR), and the M107 Semi-Automatic Long Range Sniper Rifle (LRSR), require continuous upgrades to the weapon, components, and/or ancillary equipment. Sniper upgrades seek to enhance sniper mission capability, effectiveness, and survivability by extending the sniper's influence through emerging technologies in perfecting ballistics with exacting hardware and precise calculations, reducing sniper team burden through decreased weight and enhanced ergonomics, portability, signature-reduction, faster more precise target reconnaissance, surveillance, and target acquisition (RSTA) and precision aiming with automated ballistic prediction systems. Upgrades also support sniper/spotter mission collaboration with information sharing of targets and better situational awareness.

Secondar	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.080	-	-	-	-	-	0.019	0.019	0.019
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.080	-	-	-	-	-	0.019	0.019	0.019

UNCLASSIFIED
Page 1 of 2

	UNC	LASSIFIED		
Exhibit P-40, Budget Line Item Justification:	PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub 2033A: Procurement of W&TCV, Army / BA 02: Vehicles / BSA 20: Mod of Weapons and Other (Weapons and Other Combat	P-1 Line Item Num 3181GZ1500 / Snip	ber / Title: per Rifles Modifications	
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code	B Items : 0604601A	Other Related Program Elements: N/A	
Line Item MDAP/MAIS Code: N/A				
Justification: There is no FY 2024 budget request for this funding line.				
In accordance with Section 1815 of the FY 2008 National D domestic emergency responses, and providing military support of the FY 2008 National D domestic emergency responses, and providing military support of the FY 2008 National D domestic emergency responses, and providing military support of the FY 2008 National D domestic emergency responses, and providing military support of the FY 2008 National D domestic emergency responses, and providing military support of the FY 2008 National D domestic emergency responses, and providing military support of the FY 2008 National D domestic emergency responses, and providing military support of the FY 2008 National D domestic emergency responses, and providing military support of the FY 2008 National D domestic emergency responses and providing military support of the FY 2008 National D domestic emergency responses and providing military support of the FY 2008 National D domestic emergency responses and the FY 2008 National D	efense Act, (P.L.110-181), this item is neo	essary for use by the active a	and reserve components of the Armed Forces for homeland defense missions	S,

LI 3181GZ1500 - Sniper Rifles Modifications Army

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3640GC0401 / M119 Modifications

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

P-1 Line #31

Line Item MDAP/MAIS Code: N/A

	D.:			E\/ 0004	EV 0004	EV/ 0004					T .	
	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	12	493	-	493	96	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	396.741	-	2.263	13.097	-	13.097	7.450	1.258	1.209	1.210	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	396.741	-	2.263	13.097	-	13.097	7.450	1.258	1.209	1.210	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	396.741	-	2.263	13.097	-	13.097	7.450	1.258	1.209	1.210	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request:	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	188.583	26.566	-	26.566	77.604	-	-	-	Continuing	Continuing

Description:

The M119A3 Towed Howitzer provides direct fire support for the Infantry Brigade Combat Teams (IBCTs). Funding in the M119A3 Modifications budget supports the application of modernization system enhancements required to ensure continued operational availability including the integration of digital fire control components required to execute secure digital fire missions and maintain interoperability on the battlefield. Modifications include the upgrade of the systems legacy radio to a current Software Defined Radio to support new encryption protocols, and upgrade of the systems Fire Control Computer (FCC) to support migration to a new operating system. Modernization upgrades enhance crew survivability as direct supporting rapid emplacement, conducting of fire mission, and displacement. Funding in this program also supports the installation and retrofit of modification kits to the M119A3 Howitzer.

Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	12	226	-	226	96	-	-	-
	Total Obligation Authority	-	2.180	6.048	-	6.048	7.450	1.258	1.209	1.210
ANG	Quantity	-	-	267	-	267	-	-	-	-
	Total Obligation Authority	-	0.083	7.049	-	7.049	-	-	-	-
Total:	Quantity	-	12	493	-	493	96	-	-	-
Secondary Distribution	Total Obligation Authority	-	2.263	13.097	-	13.097	7.450	1.258	1.209	1.210

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3640GC0401 / M119 Modifications

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

at ven

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Exhibits Schedule			Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-3a	GC0401 / M119 Modifications (Increase Performance)		Α		- / 396.741	- / -	12 / 2.263	493 / 13.097	- / -	493 / 13.097
P-40	Total Gross/Weapon System Cost				- / 396.741	- 1 -	12 / 2.263	493 / 13.097	- 1 -	493 / 13.097
	Exhibits Schedule				FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-3a	GC0401 / M119 Modifications (Increase Performance)		Α		96 / 7.450	- /1.258	- / 1.209	- /1.210	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				96 / 7.450	- / 1.258	- / 1.209	- /1.210	Continuing	Continuing

^{*}Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 funding in the amount of \$13.097 million supports the procurement of integration kits for a new radio to allow new encryption protocols and other modernization efforts to the Digital Fire Control System (DFCS). Integration of the new radio enables more secure radio communication and facilitates new encryption protocol interoperability between artillery and supported forces. The new radio will provide the ability to perform voice and data functions over the same radio which increases operational flexibility for firing units. Modernization efforts to the Digital Fire Control System (DFCS) will enable continued system readiness.

Net funding increase of \$10.834 million from FY 2023 to FY 2024 reflects the procurement of the Radio Integration kits and integration and qualification of a new Fire Control Computer to support an upgraded operating system and software.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

UNCLASSIFIED
Page 2 of 16

Exhibit P-3a, Individual Modification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20	P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications	Modification Number / Title: GC0401 / M119 Modifications
2000/17 02 7 20	CO-10 CO-10 I / IVI TO MODIFICATIONS	GOOTO 17 WITTO WIGHINGALIONS

ID Code (A=Service Ready, B=Not Service Ready)	: A											
Descures Cummons	Prior	FY 2022	FY 2023	FY 2024	FY 2024	FY 2024	FY 2025	FY 2026	FY 2027	EV 2020	To	Total
Resource Summary	Years	F1 2022	F1 2023	Base	oco	Total	F1 2025	F1 2026	F1 2021	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	12	493	-	493	96	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	396.741	-	2.263	13.097	-	13.097	7.450	1.258	1.209	1.210	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	396.741	-	2.263	13.097	-	13.097	7.450	1.258	1.209	1.210	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	396.741	-	2.263	13.097	-	13.097	7.450	1.258	1.209	1.210	Continuing	Continuing
(The following	Resource Sumr	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)			ĺ	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	188.583	26.566	-	26.566	77.604	-	-	-	Continuing	Continuing

Description:

Modifications to M119A2 Howitzer:

Modification 1 (Digitization): Procurement of the Digital Fire Control System contracted separately for each major component, with various contract award dates. Application occurs in Battalion sets of 17 each over two-month periods.

Modification 2 (Recoil Capability Package): New recoil system which enhances the survivability of the M119. The recoil system upgrade consists of the recoil buffer, recuperator, and suspension modification.

Modification 3 (TADSS): Training Aids, Devices, Simulators and Simulations (TADSS) for use in training artillerymen and maintainers in fielded units as well as in classroom instruction at school houses.

Modification 4 (Power System): Procure new power supply for the M119A3 Digital Fire Control System. The modification increased system electrical power to meet system operating requirements for low temperature environments.

Modification 5 (Durability): Procurement of: 502 each lightweight more durable titanium firing platforms, 502 each Fire Control Computer (FCC) covers to protect FCC from damage and, 250 each FCC thumb sticks/mouse to allow FCCs with damaged touch screens to remain mission capable. Prior years optimized the design of the spades on the M119 howitzer to increase durability and decrease weight.

Modification 6 (Retrofit and Composite Fielding Activities): Retrofit current howitzer fleet with upgraded recoil capability package, Titanium Firing Platform, Digital Fire Control System components, Resiliency and Software Assurance Modification, Blast Over Pressure software upgrade and Software Defined Radio. Fielding of the Digital Fire Control System completed in FY 2018, while other retrofit activities continued through FY 2021.

Modification 7 (Program Management): Program management support to the M119A3 Howitzer: lifecycle management, coordination & synchronization of field artillery solutions, technical oversight of projects, and business management functions.

Modification 8 (Software, Cyber Security) Resiliency Software Assurance Modification (RSAM): Qualify the Resiliency and Software Assurance Modification to ensure a robust GPS capability on the M119 howitzer. Apply software upgrade to the GPS GB-GRAM receiver on the M119 fleet via a Modification Work Order. Upgrade software on the FCC to more accurately account for Blast Over Pressure effects on M119 crew and send a warning when safety limits approach.

Modification 9 (Digital Fire Control Tech Refresh) Procures integration hardware, such as cables and mounting brackets for software defined radio into digital fire control of M119 platform.

LI 3640GC0401 - M119 Modifications

Army

UNCLASSIFIED

Page 3 of 16

P-1 Line #31

Volume 1 - 204

Exhibit P-3a, Individual Modification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:		Modification Number / Title:
2033A / 02 / 20	3640GC0401 / M119 Modifications	GC0401 / M119 Modifications

ID Code (A=Service Ready,	B=Not Service Ready):A									
Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	12	226	-	226	96	-	-	-
	Total Obligation Authority	-	2.180	6.048	-	6.048	7.450	1.258	1.209	1.210
ANG	Quantity	-	-	267	-	267	-	-	-	-
	Total Obligation Authority	-	0.083	7.049	-	7.049	-	-	-	-
Total:	Quantity	-	12	493	-	493	96	-	-	-
Secondary Distribution	Total Obligation Authority	-	2.263	13.097	-	13.097	7.450	1.258	1.209	1.210

Exhibit P-3a, Individual Modification: PB 2024 ArmyDate: March 2023Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Number / Title:
3640GC0401 / M119 ModificationsModification Number / Title:
GC0401 / M119 Modifications

2033A / 02 / 20			3640GC04	401 / M119	Modification 1	ons			GC0401 /	M119 Mod	lifications	
D Code (A=Service Ready, B=Not Service Ready): A					MD	AP/MAIS C	ode:					
Models of Systems Affected: M119A3	Howitzer	Modifi	cation Typ	e: Increas	e Performa	ince	Re	lated RDT	&E PEs:			
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ N										
Procurement		. ,		. ,		. ,	. ,		. ,	. ,		
Modification Item 1 of 9: Digitization												
A Kits												
Recurring		•										
Integration Prod/Init Spares	502 / 133.497	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	502 / 133.49
Logistics & Fielding	- / 16.883	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 16.88
Program Management	- / 11.409	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 11.40
System Engineering	- / 19.576	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 19.57
Engineering Change Orders (ECO)	- <i>I</i> 15.723	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 15.72
Subtotal: Recurring	502 / 197.088	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 197.08
Subtotal: Digitization	502 / 197.088	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 197.08
Modification Item 2 of 9: Recoil Capability Package												
A Kits												
Recurring												
Recoil System Upgrade	502 / 47.579	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	502 / 47.57
Subtotal: Recurring	502 / 47.579	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 47.57
Subtotal: Recoil Capability Package	502 / 47.579	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 47.57
Modification Item 3 of 9: Training Devices (TADSS)					'							J
A Kits												
Non-Recurring		-										
Training Devices	- / 13.470	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 13.47
Subtotal: Non-Recurring	- /13.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /13.47
Subtotal: Training Devices (TADSS)	- /13.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /13.47
Modification Item 4 of 9: Power System Management		I.	I	I	1		I	I	I	I	I	I
A Kits												
Non-Recurring	1											
Power System Mods	502 / 6.815	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	502 / 6.81
Subtotal: Non-Recurring	502 / 6.815	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 6.81
Subtotal: Power System Management	502 / 6.815	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 6.81
Modification Item 5 of 9: Durability Modification		l	l	l	1		l	l	l	l	l	
A Kits												

LI 3640GC0401 - M119 Modifications Army

UNCLASSIFIED
Page 5 of 16

P-1 Line #31

Exhibit P-3a, Individual Modification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 20

P-1 Line Item Number / Title:
3640GC0401 / M119 Modifications

GC0401 / M119 Modifications

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

lodels of Systems Affected: M119A3	Howitzer	Modifi	ication Typ	oe: Increas	e Performa	ance	Re	lated RDT	&E PEs:			
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) Total Cost (\$										
Non-Recurring												
Spades	- /2.335	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 12.3
Fire Control Computer Thumbsticks	- /1.658	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /1.6
Titanium Firing Platforms	502 / 24.769	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	502 / 24.
Fire Control Computer Cover	- /1.443	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- /1.
Subtotal: Non-Recurring	502 / 30.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 30.
Subtotal: Durability Modification	502 / 30.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	502 / 30.
Modification Item 6 of 9: Retrofit and Composite Fielding Activities												
A Kits												
Recurring												
Retrofit and Composite Fielding Activiti	- / 88.543	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /1.300	- /1.258	- /1.209	- /1.210	Continuing	Continuing
Subtotal: Recurring	- /88.543	- / -	- / -	- / -	- / -	- / -	- /1.300	- /1.258	- /1.209	- /1.210	Continuing	Continuin
Subtotal: Retrofit and Composite Fielding Activities	- /88.543	- / -	- / -	- / -	- / -	- / -	- /1.300	- /1.258	- /1.209	- /1.210	Continuing	Continuin
Modification Item 7 of 9: Program Management			-			1					-	
A Kits												
Recurring												
Program Management	- /3.314	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /3.
Subtotal: Recurring	- /3.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /3.
Subtotal: Program Management	- /3.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /3.
Modification Item 8 of 9: Software, Cyber Security			1									
A Kits												
Non-Recurring												
Blast Over Pressure Mitigation Software	- /3.778	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /3.
RSAM	- /0.683	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- /0.
Subtotal: Non-Recurring	- /4.461	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /4.
Subtotal: Software, Cyber Security	- /4.461	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /4.
Modification Item 9 of 9: Digital Fire Control Tech Refresh			· ·		<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	, ,
A Kits												
Non-Recurring												
Software Defined Radio	- /5.266	- 1 -	- /2.263	493 / 13.097	- 1 -	493 / 13.097	96 / 6.150	- 1 -	- 1 -	- 1 -	- 1 -	589 / 26.7

LI 3640GC0401 - M119 Modifications Army

UNCLASSIFIED
Page 6 of 16

P-1 Line #31 Volume 1 - 207

Exhibit P-3a, Individual Modification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity:

2033A / 02 / 20

Date: March 2023

Modification Number / Title:

3640GC0401 / M119 Modifications

GC0401 / M119 Modifications

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

Models of Systems Affected: M119A3 H	Modifi	cation Typ	e: Increas	e Performa	ince	Re	Related RDT&E PEs:					
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)											
Subtotal: Non-Recurring	- /5.266	- / -	- /2.263	493 / 13.097	- / -	493 / 13.097	96 / 6.150	- / -	- / -	- / -	- / -	589 / 26.776
Subtotal: Digital Fire Control Tech Refresh	- /5.266	- / -	- /2.263	493 / 13.097	- / -	493 / 13.097	96 / 6.150	- / -	- / -	- / -	- / -	589 / 26.776
Subtotal: Procurement, All Modification Items	2,008 / 396.741	- / -	- /2.263	493 / 13.097	- / -	493 / 13.097	96 / 7.450	- /1.258	- /1.209	- /1.210	Continuing	Continuing
Installation								<u> </u>				
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	396.741	-	2.263	13.097	-	13.097	7.450	1.258	1.209	1.210	Continuing	Continuing

			UNCL	ASSIFIED			
xhibit P-3a, Indivi	idual Modification: P	B 2024 Army				Date: March 2023	
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu 3640GC0401 / M ²			Modification Number GC0401 / M119 Mod	
Code (A=Service Ready,	B=Not Service Ready) : A		1	MDAP/MAIS Co	ode:		
Modification Item 1 of 9							
anufacturer Informati	on						
lanufacturer Name: Var	ious			Manufacturer Location: Va	arious		
dministrative Leadtime	(in Months): 4			Production Leadtime (in M	fonths): 11		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
elivery Dates							
nstallation Information							
etnoù or impiementat	ion (Organic): Organic				Installation C	uantity: 0	

LI 3640GC0401 - M119 Modifications Army

P-1 Line #31

			UNCI	LASSIFIED				
xhibit P-3a, Indivi	dual Modification: P	B 2024 Army				Date: March 2023		
Appropriation / Bud 033A / 02 / 20	dget Activity / Budg	et Sub Activity:	P-1 Line Item Nu 3640GC0401 / M					
Code (A=Service Ready, I	B=Not Service Ready):A		·	MDAP/MAIS Co	ode:	·		
lodification Item 2 of 9	: Recoil Capability Packag	е						
anufacturer Informatio	on							
anufacturer Name: Vari	ious			Manufacturer Location: Va	arious			
dministrative Leadtime ((in Months): 4			Production Leadtime (in N	Months): 2	Modification Number / Title: GC0401 / M119 Modifications		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	
ontract Dates								
elivery Dates								
stallation Information								
lethod of Implementati					Installation	Quantity: 0		

			UNCL	ASSIFIED			
Exhibit P-3a, Indiv	idual Modification: Pl	B 2024 Army				Date: March 2023	
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu 3640GC0401 / M	umber / Title: Modification Number // 119 Modifications GC0401 / M119 Modifications			
D Code (A=Service Ready,	B=Not Service Ready) : A		1	MDAP/MAIS Co	ode:	1	
Modification Item 3 of 9	9: Training Devices (TADSS)					
Manufacturer Informati	on						
lanufacturer Name: Org	janic			Manufacturer Location: Va	arious		
Administrative Leadtime	(in Months): 9			Production Leadtime (in M	fonths): 1		
Dates				FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							
nstallation Information							
	ion (Organic): Organic				Installation	Out and the second	
iethoù or implementat	ion (Organic). Organic				ilistaliation	Quantity. 0	

LI 3640GC0401 - M119 Modifications Army

UNCLASSIFIED
Page 10 of 16

#3.1 Volume 1 - 211

			UNCI	LASSIFIED			
Exhibit P-3a, Individ	dual Modification: F	PB 2024 Army				Date: March 2023	
Appropriation / Bud 2033A / 02 / 20	lget Activity / Budg	et Sub Activity:	P-1 Line Item Nu 3640GC0401 / M	Imber / Title: Modification Number / Modification Number / Modifications GC0401 / M119 Modifications			
ID Code (A=Service Ready, E	B=Not Service Ready) : A			MDAP/MAIS Co	ode:		
Modification Item 4 of 9:	Power System Managem	nent		-			
Manufacturer Informatio	n						
Manufacturer Name: TBD				Manufacturer Location: TE	3D		
Administrative Leadtime (in Months): 4			Production Leadtime (in M	fonths): 2		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation	on (Organic): Organic				Installation (Quantity: 0	

			UNCL	ASSIFIED			
Exhibit P-3a, Indivi	dual Modification: P	PB 2024 Army				Date: March 2023	
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu 3640GC0401 / M ²				
D Code (A=Service Ready,	B=Not Service Ready) : A		'	MDAP/MAIS Co	ode:		
Modification Item 5 of 9	: Durability Modification						
Nanufacturer Informati	on						
Manufacturer Name: Hov	vmet Corporation			Manufacturer Location: Ha	ampton, VA		
dministrative Leadtime	(in Months): 4			Production Leadtime (in M	lonths): 14		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							
nstallation Information							
lethod of Implementat	ion (Organic): Organic				Installation C	Ouantity: 0	

Evhibit P-3a Individual			UNCL	ASSIFIED				
Eximple F-3a, illuividual	I Modification: PE	3 2024 Army				Date: March 2023		
Appropriation / Budget 2033A / 02 / 20	t Activity / Budge	t Sub Activity:		ine Item Number / Title: GC0401 / M119 Modifications Modification Number / Tit GC0401 / M119 Modification				
ID Code (A=Service Ready, B=Not	Service Ready): A			MDAP/MAIS Co	ode:			
Modification Item 6 of 9: Retr	rofit and Composite Fie	elding Activities						
Manufacturer Information								
Manufacturer Name: Loyal Sou	urce Government Serv	ices		Manufacturer Location: Va	rious			
Administrative Leadtime (in Mo	onths): 3			Production Leadtime (in Months): 2				
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	
Contract Dates	Jan 2022	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028	
Delivery Dates	Mar 2022	Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028	
Installation Information Method of Implementation (C	Organic): Contractor a	nd Organic			Installation (Quantity: 0		

			UNCI	LASSIFIED			
Exhibit P-3a, Indivi	dual Modification: F	PB 2024 Army				Date: March 2023	
Appropriation / Bud 2033A / 02 / 20	dget Activity / Budg	et Sub Activity:	P-1 Line Item Nu 3640GC0401 / M	umber / Title: Modification Number / Modification Number / Modifications GC0401 / M119 Mod			
ID Code (A=Service Ready, I	B=Not Service Ready) : A		1	MDAP/MAIS Co	ode:	1	
Modification Item 7 of 9	: Program Management			_			
Manufacturer Information							
Manufacturer Name: NA				Manufacturer Location: NA	A		
Administrative Leadtime ((in Months):			Production Leadtime (in M	fonths):		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementati	on (Organic): Organic				Installation (Quantity: 0	

			UNCI	LASSIFIED				
Exhibit P-3a, Individu	al Modification: PB	3 2024 Army				Date: March 2023		
Appropriation / Budge 2033A / 02 / 20			P-1 Line Item Nu 3640GC0401 / M	Imber / Title: 119 Modifications		Modification Number / Title: GC0401 / M119 Modifications		
ID Code (A=Service Ready, B=No	ot Service Ready):A		'	MDAP/MAIS Co	ode:	-		
Modification Item 8 of 9: So	oftware, Cyber Security							
Manufacturer Information								
Manufacturer Name: NA				Manufacturer Location: NA	١			
Administrative Leadtime (in I	Months): 5			Production Leadtime (in M	onths):			
Dates	FY 2022	FY 2023	FY 2025	FY 2026	FY 2027	FY 2028		
Contract Dates								
Delivery Dates								
Installation Information								
Method of Implementation	(Organic): Organic				Installation	Quantity: 0		

Exhibit P-3a, Indivi	dual Modification: P	B 2024 Army				Date: March 2023	
Appropriation / Bu 2033A / 02 / 20	dget Activity / Budge	et Sub Activity:	P-1 Line Item Nu 3640GC0401 / M	Imber / Title: 119 Modifications		Modification Number GC0401 / M119 Mod	
ID Code (A=Service Ready,	B=Not Service Ready):A		1	MDAP/MAIS Co	ode:	1	
Modification Item 9 of 9	: Digital Fire Control Tech F	Refresh		<u>. </u>			
Manufacturer Informati	on						
Manufacturer Name: TBI)			Manufacturer Location: TE	BD		
Administrative Leadtime	(in Months): 2			Production Leadtime (in M	lonths): 9		
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	6 FY 2027	
Contract Dates		Jan 2023	Jan 2024	Jan 2025			
Delivery Dates		Oct 2023	Oct 2024	Oct 2025			
Installation Information							
Method of Implementat	ion (Organic): Organic				Installation	Quantity: 0	

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

7054G02100 / Mortar Modification

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	138.180	-	-	0.423	-	0.423	-	-	-	-	-	138.603
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	138.180	-	-	0.423	-	0.423	-	-	-	-	-	138.603
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	138.180	-	-	0.423	-	0.423	-	-	-	-	-	138.603
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Th	e corresponding	g budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

BLI 7054G02100 / Mortar Modification is a new start in FY 2024.

Mortar System Modification provides 60mm Lightweight M224A1, 81mm Lightweight M252A1 and 120mm M120A1/M121 mortar weapon systems modification to support current and modernized mounted and dismounted platforms and enables the replacement of aging/obsolete major system components and subcomponents including Basic Issue Items (BII) kits, Additional Authorized List (AAL) items, Modified Work Order (MWO) kits, Engineering Change Proposals (ECPs), Technical Data Packages (TDPs), etc. These modification efforts increase producibility, manufacturability and procurement of required assets within the United States industrial base, supporting higher firing pressures, integration of new components for system accuracy, reliability, and enable better tracking cannon service life and address obsolescence and/or technical issues related to weapon system safety.

Secondar	y Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	0.423	-	0.423	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	-	0.423	-	0.423	-	-	-	-

Justification:

FY 2024 Base procurement dollars in the amount of \$0.423 million will support M326 Mortar Stowage Kit (MSK) upgrades and M1101 / M1102 trailers obsolescence, producibility, and soldier safety requirements. The funding will also support tactical vehicle integration efforts to address MSK/trailer obsolescence, which will improve soldier maneuverability. These efforts are required to meet US Army requirements to address obsolescence, improve soldier safety and manufacturability of mortar systems currently fielded to Infantry Brigade Combat Teams (IBCTs), Stryker Brigade Combat Teams (SBCTs), Armored Brigade Combat Teams (ABCTs), as well as the Special Forces Groups and Ranger Regiments.

G02100 / Mortar Modification is a new start in FY 2024.

LI 7054G02100 - Mortar Modification
Army

Page 1 of 2

P-1 Line #32

		UNC	LASSIFIED				
2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh ID Code (A=Service Ready), B=Not Service Ready): A Program Elements for Code B Items: N/A Line Item MDAP/MAIS Code: N/A In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland	Exhibit P-40, Budget Line Item Justification: PB 20	024 Army		Date: March 2023			
Line Item MDAP/MAIS Code: N/A In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland	2033A: Procurement of W&TCV, Army / BA 02: Wear	oons and Other Combat					
In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland	ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code	B Items: N/A	Other Related Program Elements: N/A			
In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.	Line Item MDAP/MAIS Code: N/A						
	In accordance with Section 1815 of the FY 2008 National Defense defense missions, domestic emergency responses, and providing	Authorization Act (P.L 110-181), the military support to civil authorities.	is item is necessary for us	use by the active and reserve components of the Armed Forces for homeland			

LI 7054G02100 - Mortar Modification Army

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

1862GL3200 / Items Less Than \$5.0m (WOCV-WTCV)

Vehicles / BSA 30: Support Equipment & Facilities

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready): A

	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	148.774	13.826	2.138	1.148	-	1.148	1.055	2.237	2.241	2.243	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	148.774	13.826	2.138	1.148	-	1.148	1.055	2.237	2.241	2.243	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	148.774	13.826	2.138	1.148	-	1.148	1.055	2.237	2.241	2.243	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request:	s are documente	d elsewhere.)				•
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). Program provides for the procurement and fielding of standard and non-standard small arms to include auxiliary components such as tripods, combat optics, protective lens coatings for optics, fire controls, suppressors, powered/ intelligent rails, weapon mounts/platforms, and adaptors and to meet urgent needs or initial buys. Weapons and auxiliary components procured under this budget activity in prior years consist of MK48 Machine Guns, Modular Handgun System (MHS) and associated Basic Issue Items (BII), M500 Mossberg Shotguns, MP5KA and APC9K Submachine Guns to include magazines, clamps, holsters, slings, lanyards, spare parts and cleaning kits.

Seconda	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.826	2.138	1.148	-	1.148	1.055	2.237	2.241	2.243
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	13.826	2.138	1.148	-	1.148	1.055	2.237	2.241	2.243

Justification:

FY 2024 Base procurement dollars in the amount of \$1.148 million supports the Active Army by providing funding for the procurement, fielding, training, and safety assessments of various Standard and Non-Standard Weapons and accessories. These weapons are required to facilitate training of U.S. Army and foreign security forces on host nation weapon systems. Funding will also purchase Non-Standard weapons to support the Regionally Aligned Forces (RAF), Security Force Assistance Brigades, International Special Training Center (ISTC), Security Force Assistance Foreign Weapons Course, Military Advisor Training Academy, as well as and Army National Guard to include Biathlon Teams to maintain and procure the specialized target rifles/accessories, replica M1873 ceremonial pistols for the 11th Armored Cavalry Regiment (ACR), pistols and accessories. Air Rifles for Police/Provost Marshal Division to assist with varmint control, standard and non-standard caliber Pistols, Rifles, Shot Guns, Machine Guns, Grenade Launchers, and Shooting glasses and scopes. Includes limited distribution weapons/accessories such as world class Olympic Grade marksmanship weapons and accessories to support the Army Marksmanship Unit (AMU) as needed.

UNCLASSIFIED
Page 1 of 2

LINCI ASSIEIED

	UNCL	ASSIFIED	
Exhibit P-40, Budget Line Item Justification:	PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub 2033A: Procurement of W&TCV, Army / BA 02: \ Vehicles / BSA 30: Support Equipment & Facilitie	Weapons and Other Combat	P-1 Line Item Nu 1862GL3200 / Ite	umber / Title: ems Less Than \$5.0m (WOCV-WTCV)
D Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code E	Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
The Army will procure the Modular Handgun System (MHS)	and associated Basic Issue Items (BII) as	needed.	
In accordance with Section 1815 of the FY 2008 National Dedefense missions, domestic emergency responses, and pro		is item is necessary for us	se by the active and reserve components of the Armed Forces for homeland

LI 1862GL3200 - Items Less Than \$5.0m (WOCV-WTCV) Army

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3270GC0050 / Production Base Support (WOCV-WTCV)

Vehicles / BSA 30: Support Equipment & Facilities

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready):

THE REIT HIDAL THIALO COUC. NAT												
	Prior			FY 2024	FY 2024	FY 2024					То	
Resource Summary	Years	FY 2022	FY 2023	Base	oco	Total	FY 2025	FY 2026	FY 2027	FY 2028	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	399.586	118.504	225.220	115.024	-	115.024	119.237	95.788	75.874	75.948	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	=	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	399.586	118.504	225.220	115.024	-	115.024	119.237	95.788	75.874	75.948	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	399.586	118.504	225.220	115.024	-	115.024	119.237	95.788	75.874	75.948	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program provides funding to establish, modernize, expand, or replace Army-owned industrial facilities and equipment used in production and production testing of Weapons and Tracked Combat Vehicles (WTCV) and their components. The program also provides for the preserving, storing, and disposing for facilities and equipment that are either not required for current active production or are not needed by the Army.

Production Base Support occurs at Watervliet Arsenal (WVA), NY; the Joint Systems Manufacturing Center (JSMC), also known as the Lima Army Tank Plant located in Lima, Ohio, and the Joint Manufacturing and Technology Center (JMTC) at Rock Island Arsenal (RIA), IL. This program also provides funding for the Arsenal 5-Year Plan(s) for sustainment and modernization.

This program also provides funding to the Army Test and Evaluation Command (ATEC) to establish, modernize, expand, or replace test facilities used in production testing of Weapons and Tracked Combat Vehicles and their components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete.

Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidance to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at Aberdeen Test Center (ATC), Aberdeen Proving Ground, MD; White Sands Test Center (WSTC), White Sands Missile Range, NM, and Yuma Test Center (YTC), Yuma Proving Ground, AZ.

Secondar	ry Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	118.504	225.220	115.024	-	115.024	119.237	95.788	75.874	75.948
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	118.504	225.220	115.024	-	115.024	119.237	95.788	75.874	75.948

UNCLASSIFIED
Page 1 of 88

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

Vehicles / BSA 30: Support Equipment & Facilities

P-1 Line Item Number / Title: 3270GC0050 / Production Base Support (WOCV-WTCV)

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

	Project Schedule	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Project	Total Cost (\$ M)					
(Uncatego	prized)	-	118.504	225.220	115.024	-	115.024
	BAE Production Facility	-	27.500	-	-	-	-
P-25	BAE-001 - BAE York Facilitation to increase and accelerate Armored Multi Purpose Vehicle (AMPV) production	-	27.500	-	-	-	-
	Watervliet Arsenal (WVA)	-	25.662	221.539	32.680	-	32.680
P-25	WVA0001 - Mortar Production Modernization	-	10.662	-	-	-	-
P-25	WVA0005 - New Paint Booth	-	15.000	-	-	-	-
P-25	WVA0008 - Radial Forge Replacement	-	-	65.000	-	-	-
P-25	WVA0009 - Electro-Chemical Machining System for Cannon Rifling	-	-	10.000	-	-	-
P-25	WVA0010 - Hex-Trivalent Process Verification	-	-	3.850	-	-	-
P-25	WVA0011 - Rifled WaterJet and Verification	-	-	10.000	-	-	-
P-25	WVA0012 - ECM Facility Transition (Rifled Tubes)	-	-	4.500	-	-	-
P-25	WVA0013 - ECM Tooling and Profile Verification	-	-	4.200	-	-	-
P-25	WVA0014 - Convert disused Hexavalent Chrome plating facility to Trivalent Chrome	-	-	7.000	-	-	-
P-25	WVA0015 - Chrome Tooling (Anodes & Cathodes)	-	-	3.000	-	-	-
P-25	WVA0016 - Rifled Cold-Spray System (Spindle Lathe, Facilities, System)	-	-	14.250	-	-	-
P-25	WVA0017 - Anodize Line (Reconstitute in-house process)	-	-	2.000	-	-	-
P-25	WVA0018 - Cannon Production High Voltage Substation Modernization	-	-	3.000	-	-	-
P-25	WVA0019 - Inspection Gauges - XM35	-	-	2.000	-	-	-
P-25	WVA0020 - Cannon Billet Pre-Heat Induction Furnace System	-	-	7.000	-	-	-
P-25	WVA0021 - Guided Bore System for ERCA Length Cannon	-	-	10.000	-	-	-
P-25	WVA0022 - External Cylindrical Grinder	-	-	3.400	-	-	-
P-25	WVA0023 - Overhead Cannon Transport Crane Modernization (Buildings 20, 35, 220, and 135)	-	-	17.000	-	-	-
P-25	WVA0024 - ERCA Vertical Turning Lathe Set (Breech Manufacture)	-	-	6.800	-	-	-
P-25	WVA0025 - Cannon Production Compressed Air Distribution Modernization	-	-	5.000	-	-	-
P-25	WVA0026 - Cannon Production High Voltage Power Distribution Modernization	-	-	10.000	-	-	-
P-25	WVA0027 - WVA Miscellaneous Small Projects	-	-	4.268	2.680	-	2.680
P-25	WVA0035 - Horizontal Milling Center	-	-	1.000	-	-	-
P-25	WVA0037 - Excess Equipment, Floor Repairs, Relocate Equipment	-	-	0.971	-	-	-
P-25	WVA0038 - Filament Winder 1/2 (120mm Bore Evacuator)	-	-	1.000	-	-	-
P-25	WVA0039 - Filament Winder 2/2 (120mm Bore Evacuator)	-	-	1.000	-	-	-
P-25	WVA0040 - 2nd M256 Cold Spray System	-	-	4.400	-	-	-
P-25	WVA0041 - ID Grinder 1/2	-	-	2.850	-	-	-
P-25	WVA0042 - ID Grinder 2/2	-	-	2.850	-	-	-
P-25	WVA0043 - Hone 1/2	-	-	0.900	-	-	-

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

Vehicles / BSA 30: Support Equipment & Facilities

P-1 Line Item Number / Title:

3270GC0050 / Production Base Support (WOCV-WTCV)

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

	Project Schedule	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Project	Total Cost (\$ M)					
P-25	WVA0044 - Hone 2/2	-	-	0.900	-	-	-
P-25	WVA0045 - M256 Waterjet	-	-	3.200	4.200	-	4.200
P-25	WVA0046 - M256 Waterjet Foundation	-	-	1.000	-	-	-
P-25	WVA0047 - Gymnasticator	-	-	2.200	-	-	-
P-25	WVA0049 - Horizontal Machining Center	-	-	1.000	-	-	-
P-25	WVA0050 - Hollow Spindle Lathe	-	-	6.000	-	-	-
P-25	WVA0051 - Two (2) Surface Grinders	-	-	-	3.200	-	3.200
P-25	WVA0052 - Tube Runout Table	-	-	-	1.200	-	1.200
P-25	WVA0053 - Wire Electric Discharge Machine	-	-	-	1.400	-	1.400
P-25	WVA0054 - Quality Control Inspection Equipment	-	-	-	5.400	-	5.400
P-25	WVA0055 - Tri-Chrome Conversion	-	-	-	9.400	_	9.400
P-25	WVA0056 - Cannon Preform Advanced Material Purchase	-	-	-	1.200	-	1.200
P-25	WVA0057 - Minor Plating Reconstitution	-	-	-	4.000	-	4.000
	Joint Systems Manufacturing Center (JSMC) - Lima	-	46.692	-	60.306	-	60.306
P-25	JSMC001 - JSMC Miscellaneous Small Projects	-	7.485	-	16.263	-	16.263
P-25	JSMC008 - Remove TM004 and Install New Machine at TM005 Location	-	6.500	-	-	-	-
P-25	JSMC009 - Replace CE92 & CE96 Vertical Machining Centers (VMCs)	- 1	2.500	-	-	-	-
P-25	JSMC010 - Remove TR76 and TR77 and Replace with (1) Vertical Machining Center (VMC)	-	1.750	-	-	-	-
P-25	JSMC011 - Replace SB13 with Robotic Blast Booth	-	5.500	-	-	-	-
P-25	JSMC012 - RFID Asset Tracking	-	1.653	-	-	-	-
P-25	JSMC013 - Robotic Machine Tending Systems	-	1.000	-	-	-	-
P-25	JSMC014 - Repair/Refurbish/Replace Locomotive(s)	-	2.381	-	-	-	-
P-25	JSMC015 - Autonomous Material Handling	-	2.000	-	-	-	-
P-25	JSMC016 - Build 351 - Rehab South End Office Complex	- 1	2.000	-	-	-	-
P-25	JSMC017 - Water Tower Piping Renovation	-	7.540	-	-	-	-
P-25	JSMC018 - Replace Arch Beam Cranes - Safety Recall	- 1	4.121	-	-	-	-
P-25	JSMC020 - Building 281 Replace Drag Line	-	1.102	-	-	-	-
P-25	JSMC021 - Replace Cooling Tower in Power House	-	1.160	-	-	-	-
P-25	JSMC022 - Rehabilitate Hardstand Pavement	-	-	-	1.061	-	1.061
P-25	JSMC023 - B147 Replace Drag Line	- 1	-	-	1.180	-	1.180
P-25	JSMC024 - Replace Fire Sprinkler System Components	-	-	-	3.609	-	3.609
P-25	JSMC025 - Structural Repair of B142	-	-	-	1.785	-	1.785
P-25	JSMC026 - 480V Substation Work	-	-	-	1.817	-	1.817
P-25	JSMC027 - Upgrade Cranes CO0112 and CO0431 Turret Line Station 0	-	-	-	1.850	-	1.850

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3270GC0050 / Production Base Support (WOCV-WTCV)

Vehicles / BSA 30: Support Equipment & Facilities

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready):

	Project Schedule	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Project	Total Cost (\$ M)					
P-25	JSMC028 - Replacement of Government Owned Mobile Equipment (Forklifts, Walk behind, Pallet Jack)	-	-	-	1.500	-	1.500
P-25	JSMC030 - B147 Shaw Box Overhead Cranes	-	-	-	5.000	-	5.000
P-25	JSMC031 - Building 351 Outside Utilities Replacement	-	-	-	6.857	-	6.857
P-25	JSMC032 - Replace (2) Turret Machines (TM) TM006/TM007	-	-	-	7.909	-	7.909
P-25	JSMC033 - Building 147 South Side Underground Infrastructure Improvement	-	-	-	8.570	-	8.570
P-25	JSMC035 - Electronic Fabrication & Assembly Inspection	-	-	-	0.952	-	0.952
P-25	JSMC036 - Electronic Final Inspection Records	-	-	-	0.976	-	0.976
P-25	JSMC037 - Level/Alignment of Hull Machines (HM) HM0035 & HM0036	-	-	-	0.977	-	0.977
	Rock Island Arsenal - Joint Manufacturing and Technology Center (RIA-JTMC)	-	14.982	-	18.222	-	18.222
P-25	JMTC002 - Thick Plate Machining Line Equipment	-	10.169	-	-	-	-
P-25	JMTC003 - Tool Room Modernization	-	0.938	-	-	-	-
P-25	JMTC004 - CNC Cutting Table and Spreader	-	0.375	-	-	-	-
P-25	JMTC005 - Bridge Mill (Thick plate machining line)	-	3.500	-	-	-	-
P-25	JMTC006 - JMTC Miscellaneous Small Projects	-	-	-	1.750	-	1.750
P-25	JMTC007 - Flexible Plating Line	-	-	-	1.236	-	1.236
P-25	JMTC008 - Sand Handling System	-	-	-	1.236	-	1.236
P-25	JMTC009 - Upgrade Existing Paint Booths	-	-	-	4.500	-	4.500
P-25	JMTC010 - Sand Printing Package	-	-	-	2.000	-	2.000
P-25	JMTC011 - Large, Multi-Axis Machining	-	-	-	7.500	-	7.500
	Army Test and Evaluation Command (ATEC) Facilities	-	3.668	3.681	3.816	-	3.816
P-25	ATEC - ATEC Facilities	-	3.668	3.681	3.816	-	3.816
Total Gros	ss/Weapon System Cost	-	118.504	225.220	115.024	-	115.024

*For the P-17 and P-25, the Project Column displays a three-level indentation: Project Category (e.g., Environmental), followed by the Facility, followed by the Project Name. Exhibits with no Project Category are included under the "Uncategorized" category. For the P-26, the Project column displays a two-level indentation: Project Type (e.g., Inactive Plants, Inactive Lines at Contractor Plants and Inactive Lines at Active Plants), followed by the Facility. Note also that although all P-17, P-25 and P-26 projects are shown in the project schedule, not all projects will have a corresponding exhibit. A P-17 or P-25 exhibit is only included if data beyond the Project Number, Project Title and Cost are included (for example: for the P-17, Description, Manufacturer, etc.; for the P-25, Narrative Explanation, Cost Elements, Principle Milestones, etc.). A P-26 exhibit is only included if data beyond Project Type and Total Cost are included (for example, Description, Contractor, Maintenance/Recurring/Environmental/Other costs, etc.).

Justification:

FY 2024 Base procurement dollars in the amount of \$115.024 million supports Army Production Base Support activities at Watervliet Arsenal (WVA) in Watervliet, NY; Joint Systems Manufacturing Center (JSMC) in Lima, OH, Joint Manufacturing and Technology Center (JMTC) at Rock Island Arsenal (RIA), IL, and the Army Test and Evaluation Command (ATEC). The significant investment in WVA, JSMC, and JMTC is due to aging infrastructure and the increased organic industrial base capabilities, the manufacturing of equipment, and facility improvements. The objective is to advance industrial base capabilities in order to implement risk mitigation strategies that ensure production capacities meet required aggregate demand.

UNCLASSIFIED
Page 4 of 88

Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2033A: Procurement of W&TCV, Army / BA 02: Weapons and Other Combat

3270GC0050 / Production Base Support (WOCV-WTCV)

Vehicles / BSA 30: Support Equipment & Facilities

Program Elements for Code B Items: N/A Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

ID Code (A=Service Ready, B=Not Service Ready):

The activities of the Army Production Base Support are as follows:

Production Base Support activities:

- Watervliet Arsenal (WVA): \$32.680M Supports organic industrial base upgrades and improvement at WVA to optimize production of 120mm gun tubes. Major efforts include replacement of critical production equipment such as surface grinders, wire electric discharge, quality control inspection equipment and conversion from hexavalent chromium plating to trivalent chromium plating.
- Joint Systems Manufacturing Center (JSMC) Lima: \$60.306M supports organic industrial base upgrades and improvement at JSMC to optimize Abrams M1A2 production. Major efforts include replacement of end of life equipment and production infrastructure used in the manufacture of M1A2 tanks, modernization of equipment and infrastructure used in the manufacture of M1A2 tanks, and upgrade of real property at JSMC.
- Rock Island Arsenal-Joint Manufacturing and Technology Center (RIA-JMTC): \$18.222M supports organic industrial base upgrades and improvements at RIA to optimize production. Major efforts include a bridge mill, modernized paint booth, waterjet cutter, land laser cutter, FY 2024 PBS will further support engineering hours, manufacturing feasibility studies, and equipment design efforts associated with planned out-year projects at critical Organic Industrial Base (OIB) production sites. This will reduce contracting lead times, address long lead items, and reduce production risk. These efforts include engineering hours and materials associated with gun tube manufacturing capability, utility upgrades, overhead cranes and lifting devices, maintenance and upgrade to hull and turret machining operations, and maintenance and upgrade of weld capabilities.

Army Test and Evaluation Command (ATEC): \$3.816 million supports:

- Aberdeen Test Center (ATC) continued modernization of fire control instrumentation required to assess weapon system fire control performance on a wide range of test items. Aberdeen Test Center will continue replacing and upgrading weapon, sight, and target scoring high-definition video cameras, recorders, digital video processing systems, fiber optic converters, and telemetry systems. Replacement equipment is scheduled to address obsolescence issues, software compatibility gaps, and deterioration of existing hardware while ensuring test equipment maintains pace with technological advances of test items to preclude lack of test support. Aberdeen Test Center will also procure new instrumentation that will allow Electromagnetic Interference (EMI) testing of current and future military platforms, including autonomous vehicles.
- White Sands Test Center (WSTC), ATEC will continue to maintain and upgrade existing equipment and instrumentation for the developing and evolving White Sands Missile Range (WSMR) to include directed energy, High-Power Microwave (HPM), Electromagnetic Pulse (EMP) and lightning effects test simulators. These items include sensors, oscilloscopes, fiber optic links, vacuum systems, cryogenic superconducting magnets, waveguides, antennas, cathodies, insulators, and various cabling and subassemblies. These efforts will help the White Sands Test Center meet regulatory, customer, and/or evolving mission requirements.
- Yuma Test Center (YTC) will acquire upgrades sensors, sensor positioning equipment, control hardware, signal conditioners, and other data acquisition equipment and software to modernize and improve accuracy and efficiency of ballistics data acquisition.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Mar	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:			1	tem Number / Title 050 / Production Ba		WOCV-WT	CV)		
Project Title: BAE York Facilitate Purpose Vehicle (AMPV) produ		ease and a	accelerate .	Armored M	lulti	Project N	umber: BAE-001	Project Cateo	jory:			
End Item Supported Model: A	MPV					'		Annual Capa	city Befor	e / After (1-8-5) : 12 /	16
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: BAE Production Fac ation: York, PA					
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, COC	CO) : COCO				
B. Equipment Cost	-	-	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Des	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	27.500	-	-	-	-	Prove Out B	•					
H. Other Costs	-	-	-	-	-	Prove Out C	ompiete.	Related	Projects			
Total Project Cost	27.500	-	-	-	-	Project		Relateu				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 funding supports the Armored Multi Purpose Vehicle industrial base at the BAE Systems Contractor-Owned Contractor-Operated facilities in York, PA in support of the acceleration in production capacity of the AMPV vehicles.

nization				P-1 Line Item Numb 3270GC0050 / Produ Project Number: WVA0001		`	TCV)		
					Project Ca	tegory:			
oduction	1								
					Annual Ca	pacity Befor	re / After (1-8-5): /	
FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Watervliet Facility Location: Waterv	` ,				
62 ·	-	-	-	Facility Type (GOGO, GO)CO, COCO): GOGO				
. 00	-	-	-	- Principal Milestones Month & Year					
. 00	-	-	-		: :				
	-	-	-	Final Design Complete:			Jun 2022		
	-	-	-						
	-	-	-	Equipment Installation Co	mplete:		May 2023		
	-	-	-	_					
	-	-	-	- Flove Out Complete.	Relat	ed Projects			
62	-	-	-	Project	Kelat				Compl
<u> </u>					tle FY & App		Facing	Start Date	Date
66	662 600 400	662	662	662	Facility Location: Waterv Facility Type (GOGO, GO)	Facility Location: Watervliet, NY Facility Type (GOGO, GOCO): GOGO	Facility Location: Watervliet, NY Facility Type (GOGO, GOCO): GOGO	22 FY 2023 Base OCO Total Facility Location: Watervliet, NY Facility Type (GOGO, GOCO): GOGO 662 -<	Facility Location: Watervliet, NY Facility Type (GOGO, GOCO): GOGO

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$10.662 million supports construction, as well as, procurement and installation of equipment to continue modernization of Building 125, originally constructed in the early 1900s, into a dedicated mortar factory at Watervliet Arsenal (WVA), NY. This project will provide for a focused factory concept with a consolidated manufacturing line and dedicated team to support the production of all mortar systems. This project will reduce manufacturing lead time by at least 50% and provided increased throughput by 200% - 400%.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				em Number / Ti 50 / Production I		WOCV-W	TCV)		
Project Title: New Paint Booth						Project Nu WVA0005	mber:	Project Cate	jory:			
End Item Supported Model:								Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Watervliet Arsena tion: Watervliet, NY	'				
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO	DCO) : GOGO				
B. Equipment Cost	-	-	-	-	-	Principal Mil	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Desi	gn Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pr	•					
F. Other In-House Support Cost	-	-	-	-	-	Equipment In:	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co						
H. Other Costs	15.000	-	-	-	-	Prove Out Co	mpiete.	Related	Projects			
Total Project Cost	15.000	-	-	-	-	Project		Related				Compl
			ı			Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$15.000 million support procurement of a new Paint Booth at Watervliet Arsenal (WVA), New York. The current booth is inefficient for cannon tubes and major components; the present booth can only accommodate up to (4) Extended Range Cannon Artillery (ERCA) cannon tubes or a larger number of smaller items. New Paint Booth technologies will include robotics and climate control which will enhance throughput, apply coatings to micron thickness and reduce rework. This project will also benefit other programs like Abrams and Mortars, which are painted at WVA.

port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
ty / Budge	t Sub Acti	vity:						WOCV-W	ΓCV)		
olacement					Project Nu WVA0008	mber:	Project Categ	gory:			
annon Pro	duction				'		Annual Capa	city Befor	e / After (1-8-5): /	
FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total			(WVA)				
-	14.000	-	-	-	Facility Type	(GOGO, GOCO, CO)CO): GOGO				
-	25.000	-	-	-	- Principal Milestones Month & Year						
-	7.000	-	-	-	Concept Desi	gn Complete:					
-	-	-	-	-							
-	6.000	-	-	-		,					
-	-	-	-	-	Equipment In	stallation Complete:					
-	8.000	-	-	-		•					
-	5.000	-	-	-	<u>'</u>						
-	65.000	-	-	-	- Protest						Compl
					Number			value			Date
	ry / Budge colacement annon Pro FY 2022	ty / Budget Sub Activated Placement support su	ty / Budget Sub Activity: clacement annon Production FY 2022 FY 2023 FY 2023 Base - 14.000 - 25.000 - 7.000	ty / Budget Sub Activity: Diacement annon Production FY 2022 FY 2023 FY 2024 Base OCO - 14.000 25.000 7.000 6.000 6.000 8.000 8.000 5.000	ty / Budget Sub Activity: placement annon Production FY 2022 FY 2023 FY 2024 Base OCO Total - 14.000 - 25.000 - 7.000 - 6.000 - 8.000 - 8.000 - 5.000	State Stat	P-1 Line Item Number / Tit 3270GC0050 / Production E 3270GC0050 / Production E	P-1 Line Item Number / Title: 3270GC0050 / Production Base Support (Notacement) Project Number: WA0008 Project Category Project Category Project Category Project Category Project Number: WA0008 Project Category Project Cate	P-1 Line Item Number / Title: 3270GC0050 / Production Base Support (WOCV-WTO) Project Number:	P-1 Line Item Number / Title: 3270GC0050 / Production Base Support (WOCV-WTCV)	P-1 Line Item Number / Title: 3270GC0050 / Production Base Support (WOCV-WTCV)

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$65.000 million supports the procurement and installation of replacement Radial Forge for use at Watervliet Arsenal, NY. The existing Radial Forge was installed and has been in operation since 1974. Across the five decades of operation, several refurbishments and modifications the system is reaching end of life. Component failures are increasing, and the Watervliet Arsenal must often manufacture replacement parts because they are not available elsewhere. The existing forge requires a two step procedure to manufacture Extended Range Cannon Artillery (ERCA) length and longer cannons. The Replacement Radial Forge supports manufacture of cannons exceeding the length of current ERCA in a single manufacturing step. The new system applies greater force during forging, allowing the forge to draw and shape a Cannon Preform Billet into a Cannon Rough Shape in less than 80% of the time required by the current system. The new systems incorporates additional automation and machine control to the forging process, producing more conformal rough shapes that reduce the amount of subsequent time and machining steps needed to produce a cannon.

Volume 1 - 230

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20)24 Army			Date: Ma	rch 2023			
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	et Sub Acti	vity:				em Number / T 50 / Production	itle: Base Support (V	VOCV-W	TCV)			
Project Title: Electro-Chemica	l Machining	System fo	r Cannon I	Rifling		Project Nu WVA0009	ımber:	Project Categ	jory:				
End Item Supported Model: F	Rifled Cann	on Producti	on					Annual Capac	city Befo	re / After (1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loca	e: Watervliet Arsenation: Watervliet, N	<i>(</i>					
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, C	0CO): GOGO					
B. Equipment Cost	-	7.000	-	-	-	Principal Mil	al Milestones Month & Year						
C. Equipment Installation Cost	-	3.000	-	-	-	Concept Des	ign Complete:						
D. Contractor Support Cost	-	-	-	-	-	Final Design	•						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:						
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be	•						
H. Other Costs	-	-	-	-	-	Prove Out Co	эттріете.	Related F	Projects				
Total Project Cost	-	10.000	-	-	-	Project		ixelateu i				Compl	
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date	
						1							

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$10.000 million supports the procurement and installation of an Electro Chemical Machining systems to be used for cannon rifling. Electro Chemical Machining is a highly automated process, using electrically controlled fluid removal of metal to surface finish quality. Electro Chemical Machining is mature commercial manufacturing technology being adapted to improve the accuracy and reduce the time needed to rifle cannon tubes. Electro Chemical Machining uses electrically conductive fluids passing under moderate pressures with easily fabricated anodes to precisely and rapidly remove metal molecules from the inside of the cannon barrel. This systems will be able to rifle ERCA length and specialty steel barrels in less than 2/3 the time required using the current broaching technique. Electro Chemical Machining costs per barrel are projected to be less than half of the current broach method, requiring less time to rifle cannon barrels with greater precision.

Volume 1 - 231

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti 050 / Production		WOCV-W	TCV)		
Project Title: Hex-Trivalent Pro	ocess Verifi	ication				Project No WVA0010		Project Categ	gory:			
End Item Supported Model: 0	Cannon Pro	duction						Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	,	e: Watervliet Arsena	` '				
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, CO	0CO) : GOGO				
B. Equipment Cost	-	0.750	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Des	ign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	stallation Complete:					
G. Total Facility Project Cost	-	2.100	-	-	-	Prove Out Be Prove Out Co	•					
H. Other Costs	-	1.000	-	-	-	Prove Out Co	ompiete.	Related I	Projects			
Total Project Cost	-	3.850	-	-	-	Project		Related				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$3.850 million supports production process verification of the use of Trivalent Chromium plating for cannon bores and cannon minor parts. Trivalent Chromium, a more environment and occupational health safe material is replacing the use of the more hazardous Hexavalent Chromium plating process used for over 5 decades. This project provides materials and effort required to verify plating processes and demonstrate performance of Trivalent Chromium on plated surfaces. This project builds upon other efforts, including the repair of the Watervliet Arsenal chrome plating facility and conversion of the disused commercial plating facility back to Arsenal use. This project introduces and verifies new processes to qualify Trivalent Chromium for cannon bore and minor parts plating.

Exhibit P-25, Production Sup	port and Ir	ndustrial Fa	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Activ	vity:				em Number / Tit 50 / Production B	_	WOCV-W	ΓCV)		
Project Title: Rifled WaterJet a	and Verifica	tion				Project Nur WVA0011	mber:	Project Categ	jory:			
End Item Supported Model: C	annon Pro	duction				1		Annual Capa	city Befor	re / After ((1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Watervliet Arsenal tion: Watervliet, NY	(WVA)				
A. Construction Cost	-	0.950	-	-	-	Facility Type	(GOGO, GOCO, CO	(CO) : GOGO				
B. Equipment Cost	-	4.750	-	-	-	Principal Mile	estones			Month & Ye	ear	
C. Equipment Installation Cost	-	0.500	-	-	-	Concept Desig	gn Complete:					
D. Contractor Support Cost	-	0.250	-	-	-	Final Design C						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pro	•					
F. Other In-House Support Cost	-	2.500	-	-	-	Equipment Ins	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Beg Prove Out Cor	•					
H. Other Costs	-	1.050	-	-	-	Prove Out Cor	ripiete.	Related I	Projects			
Total Project Cost	-	10.000	-	-	-	Project		Related	Value			Compl
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$10.000 million supports procurement and installation of a complete Waterjet System to be used for the production of Rifled Cannons. The Waterjet is being procured to serve as a combined rifling and surface finishing tool. Waterjet rifling uses high pressure slurry to precisely cut groves into the cannon bore steel. Waterjet surface finishing provides precise material removal to provide required inner diameter dimensions and required surface smoothness. Waterjet finishing is necessary to allow the use of Cold-Spray coatings in rifled cannon barrels. Waterjet rifling introduces a new capability to Watervliet Arsenal (WVA) to replace some traditional cannon production processes and complement other new technologies such as Electro Chemical Machining and Cold-Spray applied coatings.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	vity:				tem Number / Tit 150 / Production E		WOCV-W	ΓCV)		
Project Title: ECM Facility Tra	nsition (Rifl	ed Tubes)				Project Nu WVA0012	ımber:	Project Cate	gory:			
End Item Supported Model: C	annon Pro	duction				1		Annual Capa	city Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Watervliet Arsenal					
A. Construction Cost	-	1.900	-	-	-	Facility Type	e (GOGO, GOCO, CO	OCO): GOGO				
B. Equipment Cost	-	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	1.600	-	-	-	Concept Des	ign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	0.700	-	-	-	7	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be	•					
H. Other Costs	-	0.300	-	-	-	Prove Out Co	ompiete.	Polated	Projects			
Total Project Cost	-	4.500	-	-	-	Project		Related	Value			Compl
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$4.500 million supports the conversion of the prototype Electro Chemical Machining (ECM) System to production capability for rifled cannon up to Extended Range Cannon Artillery (ERCA) tube length. The Electro Chemical Machining (ECM) System provides precise removal of metal to rifle and finish cannon bores. This system replaces the traditional cannon rifling process that pulls broaches through the tube to cut and finish lands and grooves. Electro Chemical Machining (ECM) reduces mechanical stresses broaching introduces into cannon tubes. Electro Chemical Machining (ECM) will be the primary method to rifle Extended Range Cannon Artillery (ERCA) cannon tubes and is expected to replace broach rifling for large cannon. This machine compliments new capability to Watervliet Arsenal (WVA).

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	arch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / T 050 / Production		WOCV-W	TCV)		
Project Title: ECM Tooling and	d Profile Ve	rification				Project N WVA0013		Project Cate	gory:			
End Item Supported Model: 0	annon Pro	duction				,		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Watervliet Arsena ation: Watervliet, NY					
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, C	000): G0G0				
B. Equipment Cost	-	0.900	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	0.300	-	-	-		sign Complete:					
D. Contractor Support Cost	-	0.600	-	-	-	Final Design	Complete: Project Award:					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	•					
F. Other In-House Support Cost	-	1.750	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B Prove Out C	•					
H. Other Costs	-	0.650	-	-	-	- Flove Out C	ompiete.	Related	Projects			
Total Project Cost	-	4.200	-	-	-	Project Number	Title	FY & Appn	Value	Facing	Start Date	Compl Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$4.200 million supports production Electro Chemical Machining (ECM) tooling procurement and process verification for 155mm cannon including Extended Range Cannon Artillery (ERCA). This project procures the production required Electro Chemical Machining (ECM) heads, guides, and other cannon specific items needed to perform rifling for M777, M109A7, and XM1299 ERCA cannons. This project verifies that the Electro Chemical Machining (ECM) processes used to rifle each cannon provide required inner diameter, surface finish, and required service performance. This project compliments other cannon production modernization investments at Watervliet Arsenal (WVA).

Volume 1 - 235

Exhibit P-25, Production Sup	port and ir	idustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	irch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / T 050 / Production		WOCV-W	TCV)		
Project Title: Convert disused Chrome	Hexavalen	t Chrome p	lating facil	ity to Trival	lent	Project N WVA0014		Project Cate	gory:			
End Item Supported Model: E	RCA and c	ther Canno	on Product	ion				Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Watervliet Arsen ation: Watervliet, N	Υ				
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, C	:000): G0G0				
B. Equipment Cost	-	-	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept De	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award:					
F. Other In-House Support Cost	-	-	-	-	-	_	nstallation Complete	:				
G. Total Facility Project Cost	-	6.500	-	-	-	Prove Out B	•					
H. Other Costs	-	0.500	-	-	-	Prove Out C	ompiete.	Related	Drojecte			
Total Project Cost	-	7.000	-	-	-	Project		Relateu				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date
								•				

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$7.000 million supports the conversion of not currently-in-use Chrome plating tanks to operational condition and filling with Trivalent Chrome (CrIL3). This set of plating tanks will be used to qualify Trivalent Chrome for Extended Range Cannon Artillery (ERCA) cannon bore plating at Watervliet Arsenal, NY. This conversion is a risk reduction measure being performed in conjunction with the larger U.S. Army Tank Automotive and Armaments Command (TACOM) sponsored repair of the Watervliet cannon bore Chrome Plating facility. Army directed conversion to Trivalent chrome requires the development of new tooling and plating techniques to achieve equal-to or better-than performance compared to existing Hexavalent Chrome (Cr6). The conversion of these tanks allows full length plating of Extended Range Cannon Artillery (ERCA) length cannon bores with Trivalent chrome while the repaired plating facility continues using Hexavalent Chrome. Multiple cannon tubes will be coated and subjected to live fire and laboratory testing as part of this effort. This plating facility may have future utility in the production of other howitzers, tank cannons, and weapons.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				em Number / Ti 50 / Production		WOCV-W	TCV)		
Project Title: Chrome Tooling	(Anodes &	Cathodes)				Project Nu WVA0015	ımber:	Project Categ	jory:			
End Item Supported Model: 0	Cannon Pro	duction						Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	_	e: Watervliet Arsena	` '				
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO	0CO): GOGO				
B. Equipment Cost	-	0.857	-	-	-	Principal Mil	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	2.143	-	-	-	Concept Desi	ign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pi	•					
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be	•					
H. Other Costs	-	-	-	-	-	Prove Out Co	лпріете.	Related I	Projects			
Total Project Cost	-	3.000	-	-	-	Project		Related				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$3.000 million supports procurement and configuration costs to procure new anodes, cathodes, and associated tooling required to chrome plate cannon bores. This equipment is needed to provide optimum plating performance when the Chrome Plating facility is replaced.

Exhibit P-25, Production Sup	port and Ir	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	vity:			1	tem Number / Titl 050 / Production B		WOCV-W	CV)		
Project Title: Rifled Cold-Spray	y System (S	Spindle Lat	he, Facilitie	es, System)	Project No WVA0016		Project Categ	jory:			
End Item Supported Model: C	annon Pro	duction				·		Annual Capa	city Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Watervliet Arsenal ation: Watervliet, NY	` ,				
A. Construction Cost	-	1.500	-	-	-	Facility Type	e (GOGO, GOCO, CO	CO) : GOGO				
B. Equipment Cost	-	7.600	-	-	-	- Principal Milestones Month & Year						
C. Equipment Installation Cost	-	1.680	-	-	-	Concept Des	sign Complete:					
D. Contractor Support Cost	-	0.600	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	1.500	-	-	-	Equipment Ir	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be						
H. Other Costs	-	1.370	-	-	-	Prove Out Complete: Related Projects						
Total Project Cost	-	14.250	-	-	-	Project		Related				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$14.250 million supports procurement and installation of a Cold-Spray production system for use in bore coating rifled cannon. The Cold-Spray system is used to apply a multi-layer coating to the cannon bore in lieu of chromium plating. The coating is more resistant to wear compared to chromium plating, increasing cannon operation life. The Cold-Spray system will support coating of rifled cannons up to Extended Range Cannon Artillery (ERCA) length. This project procures the Cold-Spray System, supporting spindle lathes, and the tooling required to coat the cannon lengths now or planned for production. The projects funds verification of the production coating processes and durability when the cannon is fired. The rifled cannon Cold-Spray system introduces a new capability to Watervliet Arsenal (WVA), complimenting other cannon production modernization projects.

Exhibit P-25, Production Sup	port and Ir	ndustrial Fa	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Activ	vity:				em Number / Tit 50 / Production B		WOCV-W	ΓCV)		
Project Title: Anodize Line (Re	econstitute i	in-house pr	ocess)			Project Nui WVA0017	mber:	Project Cate	jory:			
End Item Supported Model: 0	Cannon Pro	duction						Annual Capa	city Befor	re / After ((1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Watervliet Arsenal tion: Watervliet, NY	(WVA)				
A. Construction Cost	-	-	-	-	-	Facility Type (GOGO, GOCO, COCO): GOGO						
B. Equipment Cost	-	1.600	-	-	-	Principal Mile	estones			Month & Ye	ear	
C. Equipment Installation Cost	-	0.400	-	-	-	Concept Desig						
D. Contractor Support Cost	-	-	-	-	-	Final Design C						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pro	•					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ins	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins: - Prove Out Complete:						
H. Other Costs	-	-	-	-	-	<u> </u>						
Total Project Cost	-	2.000	-	-	-						Compl	
					,	Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$2.000 million supports the procurement and installation of Anodization equipment at Watervliet Arsenal (WVA) New York. This system will allow the Arsenal to anodize metal parts to provide corrosion and wear resistance. Bringing this capability into WVA will increase cannon production rates by eliminating the delays caused by long lead times at outside vendors.

Exhibit P-25, Production Sup	port and Ir	ndustrial Fa	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023			
Appropriation / Budget Activity 2033A / 02 / 30	ity / Budge	t Sub Activ	vity:				m Number / Tit 0 / Production E		WOCV-W	ΓCV)			
Project Title: Cannon Producti	on High Vo	ltage Subst	tation Mod	ernization		Project Nur WVA0018	mber:	Project Categ	jory:				
End Item Supported Model: E	RCA and c	ther Canno	n Product	ion		'		Annual Capa	city Befor	re / After	(1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		: Watervliet Arsenal	(WVA)					
A. Construction Cost	-	-	-	-	-	Facility Type (GOGO, GOCO, COCO): GOGO							
B. Equipment Cost	-	2.000	-	-	-	Principal Mile	stones			Month & Ye	ear		
C. Equipment Installation Cost	-	0.800	-	-	-	Concept Desig							
D. Contractor Support Cost	-	-	-	-	-	Final Design C							
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pro	•						
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ins	tallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:							
H. Other Costs	-	0.200	-	-	-	Prove Out Complete: - Related Projects							
Total Project Cost	-	3.000	-	-	-						Compl		
		'				Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date	

Narrative Explanation:

This is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$3.000 million supports the procurement and installation of a High Voltage Substation system to convert electric grid power for cannon production at Watervliet Arsenal, NY. This system replaces obsolete equipment with more automated and reliable power conversion to support cannon production. The new substation will provide more reliable and consistent power conversion needed by modern production equipment being procured and installed. This system is scaled to support production of current and planned extended range artillery cannons, howitzers, tank cannons, and other weapons.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	vity:				tem Number / Titl 050 / Production B		WOCV-W	ΓCV)		
Project Title: Inspection Gauge	es - XM35					Project No WVA0019		Project Cate	gory:			
End Item Supported Model: X	M35							Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Location: Watervliet, NY						
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, CO	CO) : GOGO				
B. Equipment Cost	-	1.500	-	-	-	Principal Milestones Month & Year						
C. Equipment Installation Cost	-	0.250	-	-	-	Concept Des	ign Complete:					
D. Contractor Support Cost	-	0.250	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:						
H. Other Costs	-	-	-	-	-	Prove Out Complete: Related Projects						
Total Project Cost	-	2.000	-	-	-	- Burnet						Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$2.000 million supports the inspection gauges for XM35 components. The equipment replaces obsolete equipment and supports newer metrology technologies.

Exhibit P-25, Production Sup	port and Ir	ndustrial Fa	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023			
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Activ	vity:				em Number / Tit 50 / Production E		WOCV-W	ΓCV)			
Project Title: Cannon Billet Pro	e-Heat Indu	iction Furna	ace System	า		Project Nu WVA0020	mber:	Project Cate	jory:				
End Item Supported Model: E	RCA and c	ther Canno	n Product	ion		'		Annual Capa	city Befor	re / After ((1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		: Watervliet Arsenal tion: Watervliet, NY	(WVA)					
A. Construction Cost	-	-	-	-	-	Facility Type (GOGO, GOCO, COCO): GOGO							
B. Equipment Cost	-	4.500	-	-	-	Principal Mile	estones			Month & Ye	ear		
C. Equipment Installation Cost	-	2.250	-	-	-	Concept Desig	•						
D. Contractor Support Cost	-	-	-	-	-	Final Design C							
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pro							
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ins	stallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins: - Prove Out Complete:							
H. Other Costs	-	0.250	-	-	-								
Total Project Cost	-	7.000	-	-	-	-					Compl		
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date	

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$7.000 million supports the procurement and installation of a set of 5 automated Electric Induction Furnaces to preheat cannon steel billets prior to shaping in the Radial Forge. This set of furnaces will replace the natural gas powered furnace currently in use at Watervliet Arsenal, NY. These Induction Furnaces will reduce energy demand and waste heat generated during cannon billet preheating and reduce combustion gas emissions on the arsenal. The furnaces will more rapidly heat the billets and reduce exposure to contaminates, better preserving the material properties of the Extended Range Cannon Artillery (ERCA) cannon steel. The induction furnaces will be used in the production of other howitzers, tank cannons, and weapons.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti		WOCV-W	TCV)		
Project Title: Guided Bore Sys	tem for ER	CA Length	Cannon			Project N WVA0021		Project Cate	gory:			
End Item Supported Model: E	RCA and c	ther Canno	n Product	ion		,		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Watervliet Arsena cation: Watervliet, NY	,				
A. Construction Cost	-	1.000	-	-	-	Facility Typ	e (GOGO, GOCO, CO)CO) : GOGO				
B. Equipment Cost	-	7.700	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	1.000	-	-	-	Concept De	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: n Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	-	0.300	-	-	-	Prove Out C	ompiete.	Polated	Projects			
Total Project Cost	-	10.000	-	-	-	Project		Relateu	_			Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$10.000 million supports the procurement an automated guided bore cutting system scaled to support Extended Range Cannon Artillery (ERCA) length cannon production at Watervliet Arsenal, NY. This equipment is required to precisely machine the inner bore of the cannon prior to rifling and coating. This system is scaled to support production of the ERCA cannons. The system may have utility in the production of other howitzers, tank cannons, and weapons.

End Item Supported Model: Cannon Production Cost Elements (\$ in Millions) FY 2022 FY 2023 End Item Supported Model: Cannon Production Annua FY 2024 FY 2024 FY 2024 FY 2024 FY 2024 Focility Name: Watervliet Arsenal (WVA) Facility Location: Watervliet, NY	upport (MOCV-V						
End Item Supported Model: Cannon Production Cost Elements (\$ in Millions) FY 2022 FY 2023 End Item Supported Model: Cannon Production Annua FY 2024 FY 2024 FY 2024 FY 2024 FY 2024 FY 2024 Focility Name: Watervliet Arsenal (WVA) Facility Location: Watervliet, NY	appoit (VVOCV-V	VTCV)					
Cost Elements (\$ in Millions) FY 2022 FY 2023 FY 2024 Focility Name: Watervliet Arsenal (WVA) Facility Location: Watervliet, NY	ct Category:						
(\$ in Millions) FY 2022 FY 2023 Base OCO Total Facility Location: Watervliet, NY	al Capacity Bef	ore / After (1-8-5): /				
	Facility Location: Watervliet, NY						
A. Construction Cost Facility Type (GOGO, GOCO, COCO): GO	OGO						
B. Equipment Cost - 2.720 Principal Milestones	- Principal Milestones Month & Year						
C. Equipment Installation Cost - 0.680 Concept Design Complete:							
D. Contractor Support Cost Final Design Complete:							
E. Corps of Engineers Support Cost Construction Complete:							
F. Other In-House Support Cost Equipment Installation Complete:							
G. Total Facility Project Cost Prove Out Begins: Prove Out Complete:							
H. Other Costs	'						
Total Project Cost - 3.400 Project	Value			Compl			
Number Title FY			Start Date	Date			

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$3.400 million supports the procurement and installation of an automated external cylindrical grinder with sufficient bed length to rough and finish the outside surfaces of cannons and other large cylindrical parts. This automated system supports production of longer cannon tubes in production and development, replacing obsolete and less capable equipment.

Exhibit P-25, Production Sup	port and ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	irch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	et Sub Acti	vity:				tem Number / T 050 / Production		WOCV-W	TCV)		
Project Title: Overhead Cannot 220, and 135)	on Transpoi	rt Crane Mo	odernizatio	n (Building	s 20, 35,	Project N WVA0023		Project Cate	gory:			
End Item Supported Model: E	RCA and o	other Canno	on Product	ion		,		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	me: Watervliet Arsenation: Watervliet, N	Y				
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, C	OCO): GOGO				
B. Equipment Cost	-	10.000	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	5.000	-	-	-	Concept De	sign Complete:					
D. Contractor Support Cost	-	2.000	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:	:				
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B Prove Out C						
H. Other Costs	-	-	-	-	-	- Flove Out C	omplete.	Related	Projects			
Total Project Cost	-	17.000	-	-	-	Project		Related				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date
							•			•		

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$17.000 million supports the procurement and installation of modern control systems in overhead cranes in buildings 20, 35, 110, and 135, which are used in cannon production at Watervliet Arsenal, NY. The new control equipment is required to provide higher reliability in crane operation and to improve precision in positioning of overhead cranes used to transport cannons through the production lines. Improved crane operation will have utility in the production of other howitzers, tank cannons, and weapons.

Volume 1 - 245

Exhibit P-25, Production Sup	port and Ir	ndustrial Fa	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Activ	vity:				tem Number / Ti 050 / Production		WOCV-W	TCV)		
Project Title: ERCA Vertical To	urning Lath	e Set (Bree	ch Manufa	acture)		Project No WVA0024		Project Categ	jory:			
End Item Supported Model: E	RCA and c	ther Canno	n Product	ion				Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Location: Watervliet, NY						
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, C	000): G0G0				
B. Equipment Cost	-	4.600	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	1.800	-	-	-	Concept Des	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:						
H. Other Costs	-	0.400	-	-	-	Prove Out Complete:						
Total Project Cost	-	6.800	-	-	-	- Businet						Compl
	1					Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$6.800 million supports the procurement and installation of a modern Vertical Turning Lathe Set to be used for Extended Range Cannon Artillery (ERCA) cannon production at Watervliet Arsenal, NY. This equipment is required to perform ERCA cannon breech and other machining tasks that cannot be performed on 5 axis milling centers. This set is scaled to support production for current and planned extended range artillery cannons, howitzers, tank cannons, and other weapons.

Exhibit P-25, Production Sup	port and Ir	ndustrial Fa	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023			
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Activ	vity:				m Number / T 50 / Production	itle: Base Support (\	VOCV-W	ΓCV)			
Project Title: Cannon Producti	on Compre	ssed Air Di	stribution	Modernizat	tion	Project Nui WVA0025	mber:	Project Categ	jory:				
End Item Supported Model: E	RCA and c	ther Canno	n Product	ion				Annual Capa	city Befor	re / After (1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Location: Watervliet, NY							
A. Construction Cost	-	-	-	-	-	Facility Type (GOGO, GOCO, COCO): GOGO							
B. Equipment Cost	-	1.500	-	-	-	Principal Mile	stones			Month & Ye	ar		
C. Equipment Installation Cost	-	3.500	-	-	-	Concept Desig							
D. Contractor Support Cost	-	-	-	-	-	Final Design C Initial/Final Pro	•						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction C	•						
F. Other In-House Support Cost	-	-	-	-	-	1 ' '	tallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:							
H. Other Costs	-	-	-	-	-								
Total Project Cost	-	5.000	-	-	-	Project		Related	Value			Compl	
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date	

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$5.000 million supports the procurement and installation of a modern compressed air distribution system used for cannon production at Watervliet Arsenal, NY. This equipment replaces obsolete equipment with modern and more highly automated distribution of compressed air used for equipment operation, cleaning, and other purposes. This compressed air system is scaled to support production for current and planned extended range artillery cannons, howitzers, tank cannons, and other weapons.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20)24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				em Number / T 50 / Production	itle: Base Support (V	VOCV-W	TCV)		
Project Title: Cannon Product	ion High Vo	ltage Powe	er Distribut	ion Moderr	nization	Project Nu WVA0026	ımber:	Project Categ	jory:			
End Item Supported Model: E	RCA and o	other Canno	on Product	tion				Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Location: Watervliet, NY						
A. Construction Cost	-	-	-	-	-	Facility Type (GOGO, GOCO, COCO): GOGO						
B. Equipment Cost	-	7.000	-	-	-	- Principal Milestones Month & Year						
C. Equipment Installation Cost	-	3.000	-	-	-		ign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:	:				
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:						
H. Other Costs	-	-	-	-	-	Prove Out Complete:						
Total Project Cost	-	10.000	-	-	-	Project		Related				Compl
				,	,	Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$10.000 million supports the procurement and installation of high voltage power distribution lines for cannon production manufacturing systems at Watervliet Arsenal, NY. This high voltage power distribution network replaces obsolete equipment to provide power required by manufacturing systems being installed to modernize cannon production. This power distribution network is scaled to support production of current and planned extended range artillery cannons, howitzers, tank cannons, and other weapons.

Volume 1 - 248

Exhibit P-25, Production Supp	ort and In	idustrial Fa	acilities Co	ost Analys	sis: PB 202	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activit 2033A / 02 / 30	ty / Budge	t Sub Activ	/ity:				n Number / Tit) / Production B	-	VOCV-W	ΓCV)		
Project Title: WVA Miscellaneo	us Small F	Projects				Project Num WVA0027	ber:	Project Categ	ory:			
End Item Supported Model: Ca	annon Pro	duction				1		Annual Capac	city Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Location: Watervliet, NY						
A. Construction Cost	-	0.050	-	-	-	Facility Type (GOGO, GOCO, COCO): GOGO						
B. Equipment Cost	-	1.490	-	-	-	Principal Milestones Month & Year						
C. Equipment Installation Cost	-	0.120	-	-	-	Concept Desigr	•					
D. Contractor Support Cost	-	-	0.950	-	0.950	Final Design Co Initial/Final Proj						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction Co						
F. Other In-House Support Cost	-	0.220	-	-	-	Equipment Insta	allation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:						
H. Other Costs	-	2.388	1.730	-	1.730	Prove Out Complete: Related Projects						
Total Project Cost	-	4.268	2.680	-	2.680	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$2.480 million support the Production Process and Industrial Base by focusing on maintaining, improving, optimizing, and modernizing the manufacturing facilities located at Watervliet Arsenal (WVA), New York. These projects include but are not limited to: Engineering Design for FY 2025 PBS projects and project support contracts.

FY 2024 Base procurement dollars in the amount of \$0.200 million also support Self Propelled Howitzer System Portable RT Imaging Equipment: Procurement, setup, and training for portable 200 kilovolt (kV) X-ray Imaging equipment to support ongoing Extended Range Cannon Artillery Cab manufacturing efforts.

FY 2023 Base procurement dollars in the amount of \$4.268 million supported miscellaneous small projects at Watervliet Arsenal (WVA) which to included but were not limited to:

- -FY 2023 Procurement of a small pit-type tempering furnace for use in treatment of small parts up to cannon breech and breech blocks.
- -FY 2023 Procurement of an automated slant bed lathe scaled to fit up to ERCA length cannon.
- -FY 2023 Procurement of a more efficient heat treatment furnace used to produce piece parts.
- -FY 2023 Procurement of a more efficient endothermic generator to be used with the minor heat treatment furnace.
- -FY 2023 Procurement of routine small projects to support facility modernization and overall facility improvements.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				m Number / T 60 / Production	itle: Base Support (\	WOCV-W	TCV)		
Project Title: Horizontal Milling	Center					Project Nui WVA0035	mber:	Project Cate	gory:			
End Item Supported Model: N	/lajors/Mino	ors						Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	r womey reaction reaction and r						
A. Construction Cost	-	0.500	-	-	-	Facility Type	(GOGO, GOCO, C	: 0C0): GOGO				
B. Equipment Cost	-	0.450	-	-	-	Principal Mile	stones			Month & Ye	ar	
C. Equipment Installation Cost	-	0.050	-	-	-	Concept Desig	ın Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design C						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pro	•					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ins	tallation Complete	:				
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:						
H. Other Costs	-	-	-	-	-	Prove Out Complete: Related Projects						
Total Project Cost	-	1.000	-	-	-	Project		Related				Compl
-						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$1.000 million supports the procurement and installation of horizontal milling center. The machine replaces antiquated, worn equipment with modern, reliable machinery with increase capacity.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023			
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / T 050 / Production		VOCV-W	TCV)			
Project Title: Excess Equipme	nt, Floor Re	epairs, Relo	ocate Equi	pment		Project N WVA0037		Project Categ	jory:				
End Item Supported Model: E	xcess Equi	ipment, Flo	or Repairs	, Relocate	Equipmer	nt		Annual Capac	city Befo	re / After (1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Watervliet Arsenation: Watervliet, N	, ,					
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, C	: 0C0) : G0G0					
B. Equipment Cost	-	-	-	-	-	Principal M	ilestones			Month & Ye	ar		
C. Equipment Installation Cost	-	-	-	-	-		sign Complete:						
D. Contractor Support Cost	-	0.100	-	-	-	Final Design							
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:						
F. Other In-House Support Cost	-	0.020	-	-	-	Equipment I	nstallation Complete:	:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•						
H. Other Costs	-	0.851	-	-	-	Prove Out Complete:							
Total Project Cost	-	0.971	-	-	-	Project							
					,	Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date	
							1						

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$0.971 million supports the removal of excess equipment, floor repairs and relocating beneficial Watervliet Arsenal (WVA) equipment. It is necessary to remove obsolete equipment by making room and prepping locations for new equipment arriving at WVA.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023			
Appropriation / Budget Activity 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti 050 / Production I		VOCV-W	TCV)			
Project Title: Filament Winder	1/2 (120mr	n Bore Eva	icuator)			Project N WVA0038		Project Categ	jory:				
End Item Supported Model: B	Bore Evacua	ators				,		Annual Capa	city Befo	re / After (1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Watervliet Arsena ation: Watervliet, NY	` '					
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, CO)CO) : GOGO					
B. Equipment Cost	-	0.850	-	-	-	Principal Mi	ilestones			Month & Ye	ar		
C. Equipment Installation Cost	-	0.100	-	-	-		sign Complete:						
D. Contractor Support Cost	-	0.050	-	-	-	Final Design	•						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:						
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:							
H. Other Costs	-	-	-	-	-	Prove Out Complete: Related Projects							
Total Project Cost	-	1.000	-	-	- Busine						Compl		
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date	

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$1.000 million supports the replacement of filament winders used for M120 bore evacuators. This system replaces obsolete equipment and will prevent single point of failures in the manufacturing process.

Exhibit P-25, Production Sup	port and Ir	ndustrial Fa	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Activ	vity:				em Number / Ti 50 / Production I		WOCV-W	TCV)		
Project Title: Filament Winder	2/2 (120mr	n Bore Eva	icuator)			Project Nu WVA0039	mber:	Project Categ	jory:			
End Item Supported Model: E	Bore Evacua	ators						Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	, ,	e: Watervliet Arsena tion: Watervliet, NY	` '				
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO	OCO) : GOGO				
B. Equipment Cost	-	0.850	-	-	-	Principal Mile	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	0.100	-	-	-	Concept Design	gn Complete:					
D. Contractor Support Cost	-	0.050	-	-	-	Final Design (•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pro	•					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ins	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins: Prove Out Complete:						
H. Other Costs	-	-	-	-	-	Flove Out Col	implete.	Related I	Projects			
Total Project Cost	-	1.000	-	-	- Bushad						Compl	
	1				,	Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$1.000 million supports the replacement of filament winders used for M120 bore evacuators. This system replaces obsolete equipment and will prevent single point of failures in the manufacturing process

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023			
Appropriation / Budget Activity 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / T 050 / Production		WOCV-W	TCV)			
Project Title: 2nd M256 Cold S	Spray Syste	em				Project N WVA0040		Project Categ	jory:				
End Item Supported Model: C	Cannon Pro	duction						Annual Capa	city Befor	re / After (1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	1	ne: Watervliet Arsena ation: Watervliet, N	` '					
A. Construction Cost	-	0.900	-	-	-	Facility Typ	e (GOGO, GOCO, C	000) : G0G0					
B. Equipment Cost	-	3.000	-	-	-	Principal Mi	ilestones			Month & Ye	ar		
C. Equipment Installation Cost	-	0.200	-	-	-		sign Complete:						
D. Contractor Support Cost	-	0.100	-	-	-	Final Design	•						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:						
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•						
H. Other Costs	-	0.200	-	-	-	Prove Out Complete: Related Projects							
Total Project Cost	-	4.400	-	-	- British						Compl		
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date	

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$4.400 million supports procurement and installation of second cold spray system to eliminate a single point of failure and increase capacity for the cold spray technology currently being developed. This machine introduces additional capability for Watervliet Arsenal (WVA) and supports an alternate technology to chrome.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti		WOCV-W	TCV)		
Project Title: ID Grinder 1/2						Project N WVA0041		Project Cate	gory:			
End Item Supported Model: 0	annon Pro	duction				,		Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		me: Watervliet Arsena cation: Watervliet, NY	'				
A. Construction Cost	-	0.750	-	-	-	Facility Typ	e (GOGO, GOCO, CO	OCO): GOGO				
B. Equipment Cost	-	1.250	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	0.050	-	-	-	Concept De	sign Complete:					
D. Contractor Support Cost	-	0.050	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: n Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	-	0.750	-	-	-	Prove Out C	ompiete.	Polatod	Projects			
Total Project Cost	_	2.850	_	_	_							Commi
	1	1	<u> </u>	J.	J.	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$2.850 million supports procurement and installation of ID Grinder to eliminate a single point of failure and increase capacity for the cold spray technology currently being developed. This machine introduces additional capability for Watervliet Arsenal (WVA) and supports an alternate technology to chrome.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023			
Appropriation / Budget Activity 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:			1	tem Number / T 050 / Production		WOCV-W	TCV)			
Project Title: ID Grinder 2/2						Project N WVA0042		Project Cateo	gory:				
End Item Supported Model: C	annon Pro	duction						Annual Capa	city Befo	re / After (1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	,	ne: Watervliet Arsen	` '					
A. Construction Cost	-	0.750	-	-	-	Facility Typ	e (GOGO, GOCO, C	: 0C0): GOGO					
B. Equipment Cost	-	1.250	-	-	-	Principal M	ilestones			Month & Ye	ar		
C. Equipment Installation Cost	-	0.050	-	-	-		sign Complete:						
D. Contractor Support Cost	-	0.050	-	-	-	Final Design	i Complete: Project Award:						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	•						
F. Other In-House Support Cost	-	-	-	-	-	1	nstallation Complete	:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•						
H. Other Costs	-	0.750	-	-	-	Prove Out Complete: - Related Projects							
Total Project Cost	-	2.850	-	-							Compl		
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date	

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$2.850 million supports procurement and installation of ID Grinder to eliminate a single point of failure and increase capacity for the cold spray technology currently being developed. This machine introduces additional capability for Watervliet Arsenal (WVA) and supports an alternate technology to chrome.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activity 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				n Number / T O / Production	itle: Base Support (\	WOCV-W	TCV)		
Project Title: Hone 1/2						Project Nun WVA0043	nber:	Project Categ	jory:			
End Item Supported Model: C	Cannon Pro	duction						Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		Watervliet Arsena	'				
A. Construction Cost	-	-	-	-	-	Facility Type (gogo, goco, c	000): G0G0				
B. Equipment Cost	-	0.700	-	-	-	Principal Miles	tones			Month & Ye	ar	
C. Equipment Installation Cost	-	0.150	-	-	-	Concept Design	Complete:					
D. Contractor Support Cost	-	0.050	-	-	-	Final Design Co	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Proj						
F. Other In-House Support Cost	-	-	-	-	-	Equipment Insta	allation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begi Prove Out Com						
H. Other Costs	-	-	-	-	-	Prove Out Com	piete.	Related I	Projects			
Total Project Cost	-	0.900	-	-	- B							Compl
	1					Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$0.900 million supports procurement and installation of Hone to eliminate a single point of failure and increase capacity for the cold spray technology currently being developed. This machine introduces additional capability for Watervliet Arsenal (WVA) and supports an alternate technology to chrome.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				m Number / T 0 / Production	itle: Base Support (\	WOCV-W	TCV)		
Project Title: Hone 2/2						Project Nui WVA0044	nber:	Project Cateo	gory:			
End Item Supported Model: 0	Cannon Pro	duction				,		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		: Watervliet Arsenation: Watervliet, N	, ,				
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, C	: 0C0) : GOGO				
B. Equipment Cost	-	0.700	-	-	-	Principal Mile	stones			Month & Ye	ar	
C. Equipment Installation Cost	-	0.150	-	-	-	Concept Desig	n Complete:					
D. Contractor Support Cost	-	0.050	-	-	-	Final Design C	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pro	•					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ins	tallation Complete:	<u>.</u>				
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Beg Prove Out Cor						
H. Other Costs	-	-	-	-	-	Prove Out Cor	ripiete.	Polated	Drojecte			
Total Project Cost	-	0.900	-	-	- Related Projects - Project Value							Compl
-						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$0.900 million supports procurement and installation of Hone to eliminate a single point of failure and increase capacity for the cold spray technology currently being developed. This machine introduces additional capability for Watervliet Arsenal (WVA) and supports an alternate technology to chrome.

Exhibit P-25, Production Sup	port and Ir	dustrial Fa	acilities Co	ost Analys	is: PB 202	24 Army			Date : Ma	rch 2023		
Appropriation / Budget Activity 2033A / 02 / 30	ty / Budge	t Sub Activ	vity:				em Number / Tit 50 / Production E		VOCV-W	ΓCV)		
Project Title: M256 Waterjet						Project Nu WVA0045	ımber:	Project Categ	ory:			
End Item Supported Model: C	annon Pro	duction						Annual Capa	city Befor	re / After ((1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Watervliet Arsena tion: Watervliet, NY	'				
A. Construction Cost	-	1.000	1.000	-	1.000	Facility Type	(GOGO, GOCO, CO)CO): GOGO				
B. Equipment Cost	-	2.000	3.000	-	3.000	Principal Mil	estones			Month & Ye	ear	
C. Equipment Installation Cost	-	0.100	0.100	-	0.100	Concept Desi						
D. Contractor Support Cost	-	0.100	0.100	-	0.100	Final Design Initial/Final Pr	Complete:					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction						
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:						
H. Other Costs	-	-	-	-	-	Prove Out Complete:						
Total Project Cost	-	3.200	4.200	-	4 200						Compl Date	

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$4.200 million supports the procurement and installation of a second Waterjet System to support cannon production located at Watervliet Arsenal (WVA), New York. The Waterjet is used to clean cannon bores and as a surface finishing tool. Advanced materials have proven to offer an alternative to the use hexavalent chromium in the Organic Industrial Base. Waterjet System attributes: Ability to remove deposited materials in the event of defect during manufacturing. Decreases honing and grinding operations and increases production capacity. This machine introduces a new capability and expands current manufacturing options at WVA.

Exhibit P-25, Production Sup	port and Ir	ndustrial Fa	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023			
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Activ	vity:				em Number / Ti		WOCV-W	ΓCV)			
Project Title: M256 Waterjet F	oundation					Project Nu WVA0046	ımber:	Project Categ	jory:				
End Item Supported Model: 0	Cannon Pro	duction						Annual Capa	city Befor	re / After (1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	,	e: Watervliet Arsena	` '					
A. Construction Cost	-	1.000	-	-	-	Facility Type	e (GOGO, GOCO, CO	0CO) : GOGO					
B. Equipment Cost	-	-	-	-	-	Principal Mil	lestones			Month & Ye	ar		
C. Equipment Installation Cost	-	-	-	-	-		ign Complete:						
D. Contractor Support Cost	-	-	-	-	-	Final Design Initial/Final P	•						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	•						
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be	•						
H. Other Costs	-	-	-	-	-	Prove Out Complete: Related Projects							
Total Project Cost	-	1.000	-	-	- Bullet						Compl		
				•	,	Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date	

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$1.000 million supports procurement and installation of a second Waterjet System foundation to support cold spray production. The Waterjet is used to clean coatings from cannon bores and as a surface finishing tool. The Tantalum cold spray system uses hypersonic velocity air jets to deposit Tantalum onto the cannon bore. Tantalum has proven to be more erosion resistant than Chrome to protect and extend the life of cannon barrels. Waterjet System attributes: Stripping process of Tantalum (cold spray) in the event there is an issue with coating. Decreases honing and grinding operations and increases production capacity. This machine introduces a new capability to Watervliet Arsenal (WVA).

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti		WOCV-W	TCV)		
Project Title: Gymnasticator						Project N WVA0047		Project Cate	gory:			
End Item Supported Model: N	112 Breech	Block, Bre	ech Mecha	anism		,		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Watervliet Arsena cation: Watervliet, NY	` ,				
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, CO	OCO): GOGO				
B. Equipment Cost	-	1.500	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	0.150	-	-	-	Concept De	sign Complete:					
D. Contractor Support Cost	-	0.150	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: n Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B Prove Out C	•					
H. Other Costs	-	0.400	-	-	-	- Flove Out C	ompiete.	Polatod	Projects			
Total Project Cost	-	2.200	-	-	-	- Bustinet						Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$2.200 million supports the ability to test M12 Breech Block, Breech Mechanism components in-house rather than having to send them to another facility. The system allows Watervliet Arsenal (WVA) to have this portion of the manufacturing process kept in-house to allow for faster and more efficient manufacturing durations.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	arch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti 050 / Production		WOCV-W	TCV)		
Project Title: Horizontal Machi	ining Cente	r				Project N WVA0049		Project Cate	gory:			
End Item Supported Model: 0	Cannon Pro	duction						Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Watervliet Arsena ation: Watervliet, NY	,				
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, C	0CO) : GOGO				
B. Equipment Cost	-	0.800	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	0.200	-	-	-		sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	Complete: Project Award:					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction						
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins: Prove Out Complete:						
H. Other Costs	-	-	-	-	-	<u> </u>						
Total Project Cost	-	1.000	-	-	Project Value Value							Compl Date
						ivuilibei	riue	Fi & Appii	(\$ M)	racing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$1.000 million supports the procurement and installation of an automated Horizontal Machining Center, used to produce cannon piece parts. This systems replaces obsolete equipment.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti		WOCV-W	TCV)		
Project Title: Hollow Spindle L	athe					Project N WVA0050		Project Cate	gory:			
End Item Supported Model: F	Rifled Canno	ons						Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Watervliet Arsena ation: Watervliet, NY	, ` ,				
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, CO	00) : G0G0				
B. Equipment Cost	-	-	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-		sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	-	6.000	-	-	-	Prove Out C	ompiete.	Related	Drojecte			
Total Project Cost	-	6.000	-	-	-	Project		Relateu				Compl
			1			Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of \$6.000 million procures two spindle lathes. The hollow spindle lathe will support up to Extended Range Cannon Artillery (ERCA)-Length cannon, at one existing location and one new location in the factory, specifically for a guided bore system.

Volume 1 - 263

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	et Sub Acti	ivity:				tem Number / Ti 050 / Production		WOCV-W	TCV)		
Project Title: Two (2) Surface	Grinders					Project N WVA0051		Project Categ	gory:			
End Item Supported Model: A	brams					•		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Watervliet Arsena ation: Watervliet, NY	, ` ,				
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, CO	00) : G0G0				
B. Equipment Cost	-	-	2.800	-	2.800	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	0.300	-	0.300		sign Complete:					
D. Contractor Support Cost	-	-	0.100	-	0.100	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B Prove Out C	•					
H. Other Costs	-	-	-	-	-	- Flove Out C	ompiete.	Related I	Projects			
Total Project Cost	-	-	3.200	-	3.200	Project		Related				Compl
		1				Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$3.200 million supports the procurement of two (2) surface grinders, which are a major component manufacturing of breech mechanism components located at Watervliet Arsenal (WVA), New York. Surface grinding is a required process for breech rings and breech blocks.

Exhibit P-25, Production Sup	port and Ir	dustrial F	acilities Co	ost Analys	sis: PB 202	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	vity:				em Number / Tit 50 / Production E		VOCV-W	ΓCV)		
Project Title: Tube Runout Tab	ole					Project Nu WVA0052	mber:	Project Categ	ory:			
End Item Supported Model: A	brams							Annual Capa	city Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Watervliet Arsenal	` '				
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO	OCO): GOGO				
B. Equipment Cost	-	-	-	-	-	Principal Mile	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	1.000	-	1.000	Concept Desi						
D. Contractor Support Cost	-	-	0.150	-	0.150	Final Design						
E. Corps of Engineers Support Cost	-	-	0.050	-	0.050	Initial/Final Pr						
F. Other In-House Support Cost	-	-	-	-	-	Equipment In:	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co	•					
H. Other Costs	-	-	-	-	-	1 10ve Out C0	impiele.	Related F	Projects			
Total Project Cost	-	-	1.200	-	1.200	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$1.200 million supports the procurement for a cannon tube runout table. This is required to measure Total Indicator Runout (TIR) on M256 cannon tubes throughout its manufacturing process located at Watervliet Arsenal (WVA), New York. The process is both a drawing and Quality Assurance Plan (QAP) requirement.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities Co	ost Analys	sis: PB 20	24 Army			Date : Ma	rch 2023			
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	vity:				em Number / Tit 50 / Production E		VOCV-W	ΓCV)			
Project Title: Wire Electric Disc	charge Mad	chine				Project Nu WVA0053	mber:	Project Categ	ory:				
End Item Supported Model: A	brams							Annual Capac	city Befo	re / After (1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Watervliet Arsenal	(WVA)					
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CC	OCO): GOGO					
B. Equipment Cost	-	-	-	-	-	Principal Mile	estones			Month & Ye	ar		
C. Equipment Installation Cost	-	-	1.200	-	1.200	Concept Desi							
D. Contractor Support Cost	-	-	0.150	-	0.150	Final Design							
E. Corps of Engineers Support Cost	-	-	0.050	-	0.050	Initial/Final Pr							
F. Other In-House Support Cost	-	-	-	-	-	Equipment In:	stallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co	•						
H. Other Costs	-	-	-	-	-	'							
Total Project Cost	-	-	1.400	-	1.400	Project Number	Title	FY & Appn	Value	Facing	Start Date	Compl Date	

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$1.400 million supports the procurement and installation of a Wire Electric Discharge Machine (EDM) that is a required process to support minor component manufacturing of the M256 Block Crank and the M256 operating crank located at Watervliet Arsenal (WVA), New York. This automated system will be used to make precise and complex geometry cutting of metal sheets, plates, and blocks to support production of cannon systems. The EDM can replace very costly and time-consuming broaching operations and will support processing modernization as well as reducing operating costs and Takt times. Takt time is a calculation of the available production time divided by customer demand.

Exhibit P-25, Production Supp	port and Ir	ndustrial F	acilities Co	ost Analys	sis: PB 202	24 Army			Date: Mar	rch 2023			
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	ivity:				em Number / Titl 50 / Production B		WOCV-WT	TCV)			
Project Title: Quality Control In	spection E	quipment				Project Nu WVA0054	ımber:	Project Cate	gory:				
End Item Supported Model: A	brams							Annual Capa	city Befor	e / After (1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Watervliet Arsenal	(WVA)					
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO	CO) : GOGO					
B. Equipment Cost	-	-	-	-	-	Principal Mil	estones			Month & Ye	ar		
C. Equipment Installation Cost	-	-	5.100	-	5.100	Concept Desi							
D. Contractor Support Cost	-	-	0.200	-	0.200	Final Design Initial/Final Pr							
E. Corps of Engineers Support Cost	-	-	0.100	-	0.100	Construction							
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be	•						
H. Other Costs	-	-	-	-	-	Prove Out Complete: Related Projects							
Total Project Cost	-	-	5.400	-	5.400	Project		,					
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date	

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$5.400 million supports equipment that will be used to support modernization of quality control functions by implementing the digitalization of data gathering to implement Statistical Process Control (SPC) located at Watervliet Arsenal (WVA), New York. Equipment will also be used to mitigate single points of failures as well as support increased workload.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 202	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	vity:				Item Number / Ti 050 / Production		WOCV-W	TCV)		
Project Title: Tri-Chrome Conv	version					Project N WVA0055		Project Cate	gory:			
End Item Supported Model: A	brams					_		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Watervliet Arsena cation: Watervliet, NY	` '				
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, C	000) : G0G0				
B. Equipment Cost	-	-	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-		sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: n Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out E	•					
H. Other Costs	-	-	9.400	-	9.400		omplete.	Related	Projects			
Total Project Cost	-	-	9.400	-	9.400	Project		Related	Value			Compl
						Number	Title	FY & Appn		Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$9.400 million supports the procurement and installation of the conversion from hexavalent chromium plating to trivalent chromium plating located at Watervliet Arsenal (WVA), New York. This project is primarily focused on inner diameter bore coatings for large caliber weapons systems, which provide wear and erosion protection from the thermal, chemical, and mechanical impacts of a projectile. Tri Chrome attributes: Removes the dependence on hexavalent chromium for bore coatings. Newly renovated chrome plating facility will readily accept this new process. Process efficiencies have high potential to increase production capacity. This process introduces a new capability and expands current manufacturing options at WVA.

This is a new start project in FY 2024.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date : Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti 050 / Production		VOCV-W	TCV)		
Project Title: Cannon Preform	Advanced	Material P	urchase			Project No WVA0056		Project Categ	ory:			
End Item Supported Model:								Annual Capac	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Watervliet Arsena ation: Watervliet, NY	, `				
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, C	000) : G0G0				
B. Equipment Cost	-	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Des	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	-	-	1.200	-	1.200		ompiete.	Related F	Projects			
Total Project Cost	-	-	1.200	-	1.200	Project		Related	Value			Compl
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$1.200 million supports the Preform Advanced Material Purchase plating located at Watervliet Arsenal (WVA), New York. This pre-positions critical long lead castings and forgings to increase flexibility in US requirements and supply chain disruptions. Purchase of Howitzer cannon subcomponents to prove out new manufacturing capability investments at Watervliet arsenal from other (multiple) Production Base Support (PBS) investments.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities Co	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				m Number / T 50 / Production	itle: Base Support (WOCV-W	TCV)		
Project Title: Minor Plating Re	constitution	1				Project Nu WVA0057	mber:	Project Cate	gory:			
End Item Supported Model:						,		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		: Watervliet Arsen	, ,				
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, C	:000): G0G0				
B. Equipment Cost	-	-	2.000	-	2.000	Principal Mile	stones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	2.000	-	2.000	Concept Design	ın Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design C	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pro	•					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ins	tallation Complete	:				
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Beg Prove Out Cor						
H. Other Costs	-	-	-	-	-	Prove Out Cor	ripiete.	Polated	Projects			
Total Project Cost	-	-	4.000	-	4.000	Project		Related				Compl
	1					Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$4.000 million conduct a study for renovating the minor plating line (aka anodization which is the process used for chrome plating). Minors refers to smaller parts as opposed to the cannon tube plating line). This includes new anodization equipment as well as upgrades to infrastructure like the subterranean piping for flow of chemicals involved in the process. This system will allow the Arsenal to anodize metal parts to provide corrosion and wear resistance. Bringing this capability into WVA will increase cannon production rates by eliminating the delays caused by long lead times at outside vendors.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities Co	ost Analys	sis: PB 202	24 Army			Date: Ma	rch 2023			
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Tit 050 / Production E		WOCV-W	ΓCV)			
Project Title: JSMC Miscelland	eous Small	Projects				Project No JSMC001	umber:	Project Cate	gory:				
End Item Supported Model: A	brams					'		Annual Capa	city Befor	e / After (1-8-5): /		
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Joint Systems Mar ation: Lima, OH	nufacturing Center	(JSMC) - Lir	na			
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, CO)CO): GOCO					
B. Equipment Cost	7.485	-	4.517	-	4.517	Principal Mi	lestones			Month & Ye	ar		
C. Equipment Installation Cost	-	-	4.618	-	4.618		sign Complete:						
D. Contractor Support Cost	-	-	-	-	-	Final Design	Complete:						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:						
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	nstallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be	•						
H. Other Costs	-	-	7.128	-	7.128	Prove Out Complete: Related Projects							
Total Project Cost	7.485	-	16.263	-	16.263	Project							
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date	
											1		

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$16.263 million support the Abrams Tank Production Process and Abrams Industrial Base by focusing on maintaining improving, optimizing, and modernizing the manufacturing facilities located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. These small projects include, but are not limited to: rehabilitation and modernization of office spaces in various buildings on the property; perimeter fence clearing, zone spraying, and dead tree cutting; refurbishing and modernizing bridge ports and the manufacturing center; replacing, modernizing, and updating equipment (i.e., bump course controls, air conditioners, heat recovery units, steam & condensate lines, forklifts, concrete, cranes, etc.) that are past their useful life and/or have been in service for over 20 years.

No JSMC Miscellaneous Small Project funding was requested in FY 2023. This was due to available funding levels within the Production Base Support line and FY 2023 priority requirements supporting the Extended Range Cannon Artillery production base at Watervliet Arsenal supporting and the Army's modernization priorities.

FY 2024 funding request supports JSMC projects that were deferred from FY 2023 to FY 2024 as well as projects originally planned for execution in FY 2024 (approximately \$7-8 million per year).

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	is: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti		WOCV-W	ΓCV)		
Project Title: Remove TM004	and Install I	New Mach	ine at TM0	05 Location	า	Project N JSMC008		Project Categ	jory:			
End Item Supported Model:								Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Joint Systems Ma ation: Lima, OH	nufacturing Center	(JSMC) - Lir	ma		
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, CO	0CO) : GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-		sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B Prove Out C	•					
H. Other Costs	6.500	-	-	-	-	Flove Oul C	ompiete.	Related I	Projects			
Total Project Cost	6.500	-	-	-	-	Project		Related	Value			Compl
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$6.500 million support the purchase of a modernized medium sized Horizontal Boring Mill (HBM) with rotary table at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The TM004, which was installed in 1982, is currently at the end of its useful life and parts/components are becoming obsolete. This modernized equipment will replace the existing system and provide increased capability and automation.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				em Number / Titl 50 / Production Ba		WOCV-W	ΓCV)		
Project Title: Replace CE92 &	CE96 Verti	cal Machir	ning Center	rs (VMCs)		Project Nu JSMC009	mber:	Project Cateo	gory:			
End Item Supported Model:						1		Annual Capa	city Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Joint Systems Man	ufacturing Center	(JSMC) - Lir	ma		
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, COC	CO) : GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mile	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Desi	gn Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design (
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Procession (
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ins	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be						
H. Other Costs	2.500	-	-	-	-	Prove Out Co	impiete.	Related	Projects			
Total Project Cost	2.500	-	-	-	-	Project		Relateu				Compl
-					I.	Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement funds in the amount of \$2.500 million support the replacement of the existing Vertical Machining Centers (VMCs) with modernized systems which are more reliable, automated and have more capabilities at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The current VMCs are 15 - 20 years old and are experiencing high repair and maintenance costs.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				em Number / Tourn 150 / Production	itle: Base Support (V	WOCV-W	TCV)		
Project Title: Remove TR76 ar Center (VMC)	nd TR77 an	d Replace	with (1) Ve	ertical Macl	nining	Project Nu JSMC010	ımber:	Project Categ	jory:			
End Item Supported Model: A	brams					,		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loca	ition: Lima, OH	anufacturing Center	(JSMC) - Lii	ma		
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, C	000) : G000				
B. Equipment Cost	-	-	-	-	-	Principal Mil	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Desi	gn Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pr						
F. Other In-House Support Cost	-	-	-	-	-	1	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co	•					
H. Other Costs	1.750	-	-	-	-	1 10ve Out Oc	impicte.	Related I	Projects			
Total Project Cost	1.750	-	-	-	-	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$1.750 million support the removal and replacement of two Virtual Machining Centers (VMC) that are 22 and 25 years old and at the end of their useful life. The old VMCs experience excessive downtime, require continual repair, and have incurred high maintenance costs. The new modernized Vertical Machining Center (VMC) will be more efficient and will provide improved capabilities.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				em Number / Tit 50 / Production E		WOCV-W	ΓCV)		
Project Title: Replace SB13 w	ith Robotic I	Blast Bootl	n			Project Nui JSMC011	mber:	Project Cate	gory:			
End Item Supported Model: A	brams							Annual Capa	city Befor	re / After ((1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		: Joint Systems Mar	nufacturing Center	(JSMC) - Lir	ma		
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO)CO): GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mile	estones			Month & Ye	ear	
C. Equipment Installation Cost	-	-	-	-	-	Concept Desig						
D. Contractor Support Cost	-	-	-	-	-	Final Design C						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pro	•					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ins	tallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Beg Prove Out Cor						
H. Other Costs	5.500	-	-	-	-	- Flove Out Cor	iipietė.	Related	Projects			
Total Project Cost	5.500	-	-	-	-	Project		Related				Compl
	'					Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$5.500 million support the purchase and installation of an automated robotic blast system to replace the existing manual blast system. The current equipment, installed in 2007, is near the end of its useful life and has become severely worn due to the nature of the blasting environment.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				em Number / Ti		WOCV-W	ΓCV)		
Project Title: RFID Asset Trac	king					Project Nu JSMC012	ımber:	Project Categ	jory:			
End Item Supported Model: N	/lultiple Sys	tems						Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Joint Systems Ma	nufacturing Center	(JSMC) - Lir	ma		
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO	OCO): GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mil	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Desi	ign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pi	•					
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co	•					
H. Other Costs	1.653	-	-	-	-	Flove Out Co	лпрієїе.	Related I	Projects			
Total Project Cost	1.653	-	-	-	-	Project		Related				Compl
					,	Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$1.653 million supports the design and procurement of a Radio Frequency Identification (RFID) Asset Tracking system to needed to modernize the tool room infrastructure. This automated RFID tracking system is required to ensure accountability of United States Government (USG) assets throughout the Joint Systems Manufacturing Center (JSMC) - Lima, OH.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Tit 050 / Production E		WOCV-W	TCV)		
Project Title: Robotic Machine	Tending S	ystems				Project N JSMC013		Project Categ	jory:			
End Item Supported Model:								Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	_	ne: Joint Systems Ma ation: Lima, OH	nufacturing Center	(JSMC) - Liı	ma		
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, CO	OCO): GOCO				
B. Equipment Cost	-	-	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept De	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	1.000	-	-	-	-	Prove Out C	ompiete.	Related I	Projects			
Total Project Cost	1.000	-	-	-	-	Project		Relateu				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount \$1.000 million support the purchase of an automated Robotic Machine Tending System for load/unload of component machining centers. The use of Collaborative Robots (Cobots) increase safety and reduce injury; increase output and accuracy; and are able to operate in harsh environments.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	is: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	vity:			1	em Number / Titl 50 / Production B		WOCV-W	CV)		
Project Title: Repair/Refurbish	/Replace Lo	ocomotive((s)			Project Nu JSMC014	ımber:	Project Categ	jory:			
End Item Supported Model: A	brams					·		Annual Capa	city Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Joint Systems Man	nufacturing Center	(JSMC) - Lir	na		
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO	CO) : GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mi	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Des	ign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co						
H. Other Costs	2.381	-	-	-	-	Flove Out Co	лпрієїє.	Related I	Projects			
Total Project Cost	2.381	-	-	-	-	Project		Related				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$2.381 million support the repair, refurbishment or replacement of aging locomotives at Joint Systems Manufacturing Center (JSMC) - Lima, OH. Locomotives are used extensively to push and rearrange transport cars within the JSMC rail yard to facilitate the unloading/loading of tanks. The typical livespan of a locomotive is 25 to 30 years and the average age of locomotives in service at JSMC is 32 years.

Exhibit P-25, Production Sup	port and In	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	arch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	ivity:				tem Number / Ti 050 / Production		WOCV-W	TCV)		
Project Title: Autonomous Ma	terial Handl	ing				Project N JSMC015		Project Cate	gory:			
End Item Supported Model:								Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Joint Systems Ma ation: Lima, OH	anufacturing Center	· (JSMC) - Li	ma		
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, C	000) : G000				
B. Equipment Cost	-	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-		sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	Complete: Project Award:					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction						
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B Prove Out C	•					
H. Other Costs	2.000	-	-	-	-	- Flove Out C	ompiete.	Related	Projects			
Total Project Cost	2.000	-	-	-	-	Project Number	Title	FY & Appn	Value	Facing	Start Date	Compl Date
1						1			(Ψ 101)		3.0 2 0.00	

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$2.000 million support the design of space, facilities and installation of required infrastructure to support autonomous material handling and remote monitoring of automated equipment at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. Autonomous material handling systems are not only more efficient, they provide increased safety, as well as, assist in providing for a cleaner environment by reducing the amount of fossil fuels used for repetitive material moves throughout the facility.

Exhibit P-25, Production Sup	port and In	idustrial F	acilities C	ost Analys	sis: PB 20	24 Army		Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:			P-1 Line Item Number 3270GC0050 / Producti		WOCV-W	TCV)		
Project Title: Build 351 - Reha	b South En	d Office Co	omplex			Project Number: JSMC016	Project Cate	gory:			
End Item Supported Model:							Annual Capa	city Befo	re / After ((1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Joint Systems Facility Location: Lima, OH	•	r (JSMC) - Li	ma		
A. Construction Cost	-	-	-	-	-	Facility Type (GOGO, GOCC), COCO) : GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Milestones			Month & Ye	ear	
C. Equipment Installation Cost	-	-	-	-	-	Concept Design Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design Complete: Initial/Final Project Award:					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Installation Compl	lete:				
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins: Prove Out Complete:					
H. Other Costs	2.000	-	-	-	-	Prove Out Complete.	Related	Projects			
Total Project Cost	2.000	-	-	-	-	Project	Neiateu	1			Compl
				,	,	Number Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$2.000 million support modernization of the breakroom and the upstairs locker room area at the Joint Systems Manufacturing Center (JSMC) - Lima, OH and will provide design space and facilities for remote monitoring of automated equipment.

Exhibit P-25, Production Sup	port and In	idustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:			P-1 Line Item 3270GC0050 /		t le: Base Support (V	VOCV-W	ΓCV)		
Project Title: Water Tower Pip	ing Renova	ition				Project Number	er:	Project Categ	ory:			
End Item Supported Model: J	SMC Instal	lation				,		Annual Capac	ity Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Jo Facility Location:		nufacturing Center ((JSMC) - Lir	ma		
A. Construction Cost	-	-	-	-	-	Facility Type (GO	go, goco, co)CO): GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Milestor	nes			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Design C	•					
D. Contractor Support Cost	-	-	-	-	-	Final Design Comp Initial/Final Project						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction Com						
F. Other In-House Support Cost	-	-	-	-	-	Equipment Installa	tion Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins: Prove Out Comple						
H. Other Costs	7.540	-	-	-	-	- Flove Out Comple	ie.	Related F	Projects			
Total Project Cost	7.540	-	-	-	-	Project		- Tolulou I				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$7.540 million support the required renovation and upgrade of the Water Tower Piping at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The piping around the water tower is part of the underground utilities infrastructure designed and installed decades ago. Failure repairs have increased over the past several years and the piping has reached its expected service life.

Following an inspection completed at the end of 2020, multiple items were identified to be in need of repair or replacement. This project includes but is not limited to the underground piping around the water tower plant and northeast side of Building 147; the renovation of the water piping from the water tower to the new fire pumps and fire protection system in Building 66; new fire protection piping to Building 73 (Administration/Government Offices) and approximately 30% of Building 147 (Main Production) to include areas on the west side on Building 147 where sanitary sewer and storm drains connected, which is an Environmental Protection Agency (EPA) violation.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	is: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activity 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				em Number / Tit 50 / Production E		WOCV-W	ΓCV)		
Project Title: Replace Arch Be	am Cranes	- Safety R	ecall			Project Nu JSMC018	ımber:	Project Categ	jory:			
End Item Supported Model:						-		Annual Capa	city Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Joint Systems Mai	nufacturing Center	(JSMC) - Lir	ma		
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO	OCO): GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mil	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Desi	gn Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pr						
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be	•					
H. Other Costs	4.121	-	-	-	-	Prove Out Co	implete.	Related I	Projects			
Total Project Cost	4.121	-	-	-	-	Project		Related				Compl
				,	·	Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$4.121 million supports replacement of arch beam cranes at Joint Systems Manufacturing Center (JSMC) - Lima, OH. This type of crane has not been manufactured since 1962. A safety recall has been issued for these cranes, replacement parts are no longer available and the design is no longer recommended for use in "any type" of application. The welds weaken with time and could result in Martensitic Failure resulting in the bottom rail peeling away from the web plate and the potential for catastrophic load drop failure and the potential for fatal consequences.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army		Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	ivity:			P-1 Line Item Number / 3270GC0050 / Production		(WOCV-W	TCV)		
Project Title: Building 281 Rep	lace Drag l	_ine				Project Number: JSMC020	Project Cate	gory:			
End Item Supported Model:							Annual Cap	acity Befo	re / After ((1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Joint Systems Facility Location: Lima, OH	Manufacturing Cente	er (JSMC) - Li	ma		
A. Construction Cost	-	-	-	-	-	Facility Type (GOGO, GOCO), COCO): GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Milestones			Month & Ye	ear	
C. Equipment Installation Cost	-	-	-	-	-	Concept Design Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design Complete:					
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Project Award: Construction Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Installation Comple	ete:				
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins: Prove Out Complete:					
H. Other Costs	1.102	-	-	-	-	Prove Out Complete.	Related	l Projects			
Total Project Cost	1.102	-	-	-	-	Project	Neiatet				Compl
						Number Title	FY & Appr	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$1.102 million support the replacement of the Drag Line in Building 281 at Joint Systems Manufacturing Center (JSMC) - Lima, OH. The Drag Line in Building 281 has had numerous repairs through the years. The inner-workings (chains, gears, etc.) are worn out, at the end of life, and need to be replaced.

Volume 1 - 283

Exhibit P-25, Production Sup	port and In	idustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Tit 050 / Production B		WOCV-W	TCV)		
Project Title: Replace Cooling	Tower in P	ower Hous	se .			Project N JSMC021	umber:	Project Cate	gory:			
End Item Supported Model: A	brams							Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	1	me: Joint Systems Man	ufacturing Center	(JSMC) - Lii	ma		
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, CO	CO) : GOCO				
B. Equipment Cost	-	-	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept De	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: n Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	1.160	-	-	-	-	Prove Out C	ompiete.	Related	Drojecte			
Total Project Cost	1.160	-	-	-	_	Droiset		Relateu				Commi
		<u> </u>	ı	ı	J.	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base funding in the amount of \$1.160 million supports the replacement of the cooling tower in the power house located at Joint Systems Manufacturing Center (JSMC) - Lima, OH. The galvanized steel in the cooling tower is deteriorating beyond repair and the parts required to keep the equipment sustainable are obsolete and difficult to procure.

Pavem		FY 2024			P-1 Line Item Num 3270GC0050 / Prod Project Number: JSMC022	duction Ba			CV)		
		EV 2024			_		Project Categ	jory:			
22 F		EV 2024									
22 F		EV 2024				1	Annual Capa	city Befor	e / After (1-8-5): /	
	FY 2023	Base	FY 2024 OCO	FY 2024 Total	Facility Name: Joint Sy Facility Location: Lima		ufacturing Center	(JSMC) - Lin	na		
-	-	-	-	-	Facility Type (GOGO, 0	OCO, COC	CO) : GOCO				
-	-	-	-	-	Principal Milestones				Month & Ye	ar	
-	-	-	-	-		te:					
-	-	-	-	-	Final Design Complete:	.d.					
-	-	-	-	-		u.					
-	-	-	-	-	Equipment Installation C	omplete:					
-	-	1.061	-	1.061							
-	-	-	-	-	1 Tove Out Complete.		Related F	Projects			
-	-	1.061	-	1.061	Project		Related				Compl
					1 -	Γitle	FY & Appn	value (\$ M)	Facing	Start Date	Date
	- - - - -					Concept Design Complete:		Concept Design Complete:	Concept Design Complete:	Concept Design Complete:	Concept Design Complete:

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$1.061 million support the replacement of large portions of the hardstand located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. This is used for the delivery and shipment of material throughout the facility at JSMC. The pavement is past its useful life and has increasing repair costs. This project will allow new pavement which will be designed to handle the new weight of the vehicles being operated.

Exhibit P-25, Production Sup	port and Ir	dustrial F	acilities Co	ost Analys	sis: PB 202	24 Army			Date: Mai	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	ivity:				em Number / Tit 50 / Production E		WOCV-WT	TCV)		
Project Title: B147 Replace Dr	ag Line					Project Nu JSMC023	ımber:	Project Cate	gory:			
End Item Supported Model: A	brams							Annual Capa	city Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loca	e: Joint Systems Mar ation: Lima, OH	· ·	(JSMC) - Lin	na	,	
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CC)CO): GOCO				
B. Equipment Cost	-	-	1.000	-	1.000	Principal Mil	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	0.180	-	0.180	Concept Des	ign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final P	-					
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co	•					
H. Other Costs	-	-	-	-	-	1 TOVE OUT OU	impiete.	Related	Projects			
Total Project Cost	-	-	1.180	-	1.180	Project		Rolated				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$1.180 million supports the replacement of the drag line in building 147 (B147) which is responsible for moving the assembly line during production located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. It is at the end of its useful life and is showing signs of failure. The drag line uses two large and equally long chains that drag a bar that pulls the tanks, hulls, turrets, etc. through multiple stations on the assembly line during the production process. The chains throughout this process have come out of alignment and have become increasingly difficult to move forward during production. This replacement will allow for reduced downtime and updated capacity to effectively move structures down the assembly line efficiently at JSMC.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities Co	ost Analys	sis: PB 20	24 Army			Date : Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				em Number / Tit 50 / Production E		VOCV-W	TCV)		
Project Title: Replace Fire Spr	inkler Syste	em Compo	nents			Project Nu JSMC024	mber:	Project Categ	ory:			
End Item Supported Model: A	brams							Annual Capac	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loca	e: Joint Systems Mar tion: Lima, OH	· ·	(JSMC) - Liı	ma		
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO)CO): GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mile	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	3.609	-	3.609	Concept Design	gn Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design (Initial/Final Pro	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction (,					
F. Other In-House Support Cost	-	-	-	-	-	1 ' '	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Beg Prove Out Co	•					
H. Other Costs	-	-	-	-	-	1 Tove Out Col	impiete.	Related F	Projects			
Total Project Cost	-	-	3.609	-	3.609	Project		Troidioù i	Value			Compl
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$3.609 million supports the procurement and installation of 50-year-old fire sprinkler components located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. Majority of the fire sprinkler systems on site are over 50 years in age which is causing increasing failures throughout the facility. This project will decrease leaks, potential failure, and allow for minimal production impacts. This replacement will allow for systems to be updated when the replacement is completed.

Exhibit P-25, Production Sup	port and Ir	dustrial F	acilities Co	ost Analys	sis: PB 202	2024 Army Date: March 2023						
Appropriation / Budget Activity 2033A / 02 / 30	ty / Budge	t Sub Acti	vity:				tem Number / Tit 050 / Production E		WOCV-W	ΓCV)		
Project Title: Structural Repair	of B142					Project No JSMC025	umber:	Project Cate	gory:			
End Item Supported Model: A	brams							Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Joint Systems Mar ation: Lima, OH	nufacturing Center	(JSMC) - Lir	ma		
A. Construction Cost	-	-	1.300	-	1.300	Facility Type	e (GOGO, GOCO, CO	CO): GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Des	sign Complete:					
D. Contractor Support Cost	-	-	0.485	-	0.485	Final Design	Complete:					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be	•					
H. Other Costs	-	-	-	-	-	Prove Out Complete: Related Projects						
Total Project Cost	-	-	1.785	-	1 785						Compl	
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$1.785 million supports the design and construction of many structural and masonry issues with building 142 (B142) located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. Some issues are not structural in nature, but they allow the outside elements into the building. An outside engineering firm was brought on site to review the conditions of B142. This building needs to have some structural repairs done. These include the six (6) main areas which will bring the existing building up to be structurally safe and allow for continual operation. This building provides all compressed air and steam for the plant which directly supports main production buildings at JSMC.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities Co	ost Analys	sis: PB 202	24 Army								
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	ivity:				em Number / Tit 50 / Production B		WOCV-WT	CV)				
Project Title: 480V Substation	Work					Project Nu JSMC026	ımber:	Project Cate	gory:					
End Item Supported Model: A	brams						Annual Capacity Before / After (1-8-5): /							
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loca	Facility Name: Joint Systems Manufacturing Center (JSMC) - Lima Facility Location: Lima, OH							
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO	(CO): GOCO						
B. Equipment Cost	-	-	1.600	-	1.600	Principal Mil	estones			Month & Ye	Month & Year			
C. Equipment Installation Cost	-	-	0.217	-	0.217	Concept Des	ign Complete:							
D. Contractor Support Cost	-	-	-	-	-	Final Design								
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:							
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:							
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be	•							
H. Other Costs	-	-	-	-	-	Prove Out Complete: Related Projects								
Total Project Cost	-	-	1.817	-	1.817	Project		ronted				Compl		
	•					Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date		

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$1.817 million support the replacement of 480-volt substation located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. This project will allow for clean uninterrupted power to the production process. While completing this replacement, it will reduce safety hazards by reducing the plant arc flash rating on the affected power distribution equipment.

Exhibit P-25, Production Supp	port and Ir	dustrial F	acilities Co	ost Analys	sis: PB 202	3 2024 Army Date: March 2023							
Appropriation / Budget Activit 2033A / 02 / 30	ty / Budge	t Sub Acti	vity:				em Number / Tit 50 / Production B		WOCV-WT	TCV)			
Project Title: Upgrade Cranes	CO0112 aı	nd CO0431	1 Turret Line	e Station 0)	Project Nu JSMC027							
End Item Supported Model: A	brams					,		Annual Capacity Before / After (1-8-5): /					
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		Facility Name: Joint Systems Manufacturing Center (JSMC) - Lima Facility Location: Lima, OH						
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, CO	(CO): GOCO					
B. Equipment Cost	-	-	1.090	-	1.090	Principal Mil	estones			Month & Ye	ar		
C. Equipment Installation Cost	-	-	0.760	-	0.760	Concept Desi	• .						
D. Contractor Support Cost	-	-	-	-	-	Final Design Initial/Final Pr							
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	•						
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:							
H. Other Costs	-	-	-	-	-								
Total Project Cost	-	-	1.850	-	1.850	Project		Kolatea				Compl	
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date	

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$1.850 million supports the removal of obsolete equipment and the installation of new cranes CO0112 and CO0431, used at Turret Line Station 0 located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. This will reduce the amount of downtime to assembly tasks at this station because of the age of existing equipment.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities Co	ost Analys	sis: PB 20	3 2024 Army Date: March 2023						
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti		WOCV-W	ΓCV)		
Project Title: Replacement of Walk behind, Pallet Jack)	Governmer	nt Owned M	lobile Equi	oment (For	klifts,	Project No JSMC028	umber:	Project Cate	gory:			
End Item Supported Model: A	Abrams					'		Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Joint Systems Ma ation: Lima, OH	anufacturing Center	(JSMC) - Lir	ma	'	
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, Co	000) : G000				
B. Equipment Cost	-	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	1.500	-	1.500	Concept Des	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B						
H. Other Costs	-	-	-	-	-	Prove Out Complete: Related Projects						
Total Project Cost	-	-	1.500	-	1.500	Project		Related				Compl
			,			Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$1.500 million support the replacement of government owned mobile equipment on site that directly supports production located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The equipment is the primary way that all material is delivered to the line during production activities. The equipment is at the end of its useful life and is requiring increased maintenance costs and obsolescence.

port and In	ndustrial F	acilities Co	ost Analys	sis: PB 202	2024 Army Date: March 2023						
ty / Budge	t Sub Acti	vity:						WOCV-W	ΓCV)		
Overhead (Cranes				Project No JSMC030	umber:	Project Cateo	jory:			
brams							Annual Capa	city Befor	e / After (1-8-5): /	
FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ation: Lima, OH		(JSMC) - Lir	na		
-	-	-	-	-	Facility Type	e (GOGO, GOCO, COC	CO) : GOCO				
-	-	3.200	-	3.200	Principal Mi	lestones			Month & Ye	ar	
-	-	1.800	-	1.800	Concept Des	ign Complete:					
-	-	-	-	-							
-	-	-	-	-		•					
-	-	-	-	-	Equipment Ir	stallation Complete:					
-	-	-	-	-		•					
-	-	-	-	-	·						
-	-	5.000	-	5.000	5.000 Project Value Con					Compl Date	
	brams FY 2022	ty / Budget Sub Acti Overhead Cranes brams FY 2022 FY 2023	ty / Budget Sub Activity: Overhead Cranes brams FY 2022 FY 2023 FY 2024 Base 3.200 1.800	ty / Budget Sub Activity: Overhead Cranes brams FY 2022 FY 2023 FY 2024 FY 2024 OCO	ty / Budget Sub Activity: Overhead Cranes brams FY 2022 FY 2023 FY 2024 Base OCO Total 3.200 - 3.200 - 1.800 - 1.800	State	ty / Budget Sub Activity: P-1 Line Item Number / Titl 3270GC0050 / Production B Overhead Cranes Project Number:	ty / Budget Sub Activity: P-1 Line Item Number / Title: 3270GC0050 / Production Base Support (Noverhead Cranes Project Number: JSMC030 Project Category SMC030 Projec	ty / Budget Sub Activity: P-1 Line Item Number / Title: 3270GC0050 / Production Base Support (WOCV-WT	P-1 Line Item Number / Title: 3270GC0050 / Production Base Support (WOCV-WTCV)	P-1 Line Item Number / Title: 3270GC0050 / Production Base Support (WOCV-WTCV) Project Number: JSMC030 Project Category: JSMC030 Annual Capacity Before / After (1-8-5): /

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$5.000 million supports the required replacement of large shaw box cranes located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The cranes serve as the primary way of moving material during the production process throughout the facility. The replacement and modernization of these cranes allow us to avoid increasing maintenance cost along with allowing for us to correct safety concerns with the cranes during inspections.

Compl Date
ıte

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$6.857 million support the required renovation and upgrade of Building 351 outside utilities replacement at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The piping around the production building is part of the underground utility infrastructure designed and installed decades ago. Which includes several various utilities used for production and site operations. Failure repairs have increased over the past several years and the piping has reached its expected service life. The increase in failures has caused production impacts and decreased production efficiency.

This project is a new start in FY 2024.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities Co	ost Analys	sis: PB 202	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activi 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti		WOCV-W	ΓCV)		
Project Title: Replace (2) Turro	et Machines	s (TM) TM	006/TM007			Project No JSMC032	umber:	Project Cate	jory:			
End Item Supported Model: A	brams					1		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Joint Systems Ma ation: Lima, OH	anufacturing Center	(JSMC) - Liı	ma		
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, C	000): G000				
B. Equipment Cost	-	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	5.200	-	5.200		sign Complete:					
D. Contractor Support Cost	-	-	2.709	-	2.709	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co	•					
H. Other Costs	-	-	-	-	-	1 TOVE OUL C	ompiele.	Related	Projects			
Total Project Cost	-	-	7.909	-	7.909	Project		Rolated				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$7.909 million supports the removal of obsolete equipment and the procurement and installation of turret machining equipment on the production line located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. This project will also make improvements to the workspace required to install the new equipment. This equipment provides large machining capability which will be instrumental in modernizing the machining capability while reducing downtime during current production.

This project is a new start in FY 2024.

Volume 1 - 294

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities Co	ost Analys	sis: PB 202	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activity 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti		WOCV-W	ΓCV)		
Project Title: Building 147 Sou	th Side Un	derground	Infrastructu	ire Improve	ement	Project No JSMC033		Project Cateo	jory:			
End Item Supported Model: A	brams					'		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Joint Systems Ma ation: Lima, OH	nufacturing Center	(JSMC) - Liı	ma		
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, Co	0CO) : GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Des	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	-	-	8.570	-	8.570	8.570 Prove Out Complete: Related Projects						
Total Project Cost	-	-	8.570	-	8.570	Project		Related				Compl
	'	1				Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$8.570 million support the required renovation and upgrade of Building 147 (B147) south side underground infrastructure improvements at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The piping around the south side of B147 is part of the underground utilities infrastructure designed and installed decades ago. Which includes several various utilities used for production and site operations. Failure repairs have increased over the past several years and the piping has reached its expected service life. The increase in failures has caused production impacts and decreased production efficiency.

This project is a new start in FY 2024.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 202	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Tit 050 / Production E		WOCV-W	ΓCV)		
Project Title: Electronic Fabric	ation & Ass	sembly Insp	pection			Project No JSMC035		Project Cate	gory:			
End Item Supported Model: A	brams							Annual Capa	city Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Joint Systems Mar ation: Lima, OH	nufacturing Center	(JSMC) - Lir	na		
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, CO	OCO): GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Des	sign Complete:					
D. Contractor Support Cost	-	-	0.952	-	0.952	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins: - Prove Out Complete:						
H. Other Costs	-	-	-	-	-	- Related Projects						
Total Project Cost	-	-	0.952	-	0.952	Project			Value		0, 15	Compl
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$0.952 million support the project to take existing manual fabrication and assembly inspections paper processes throughout the Joint Systems Manufacturing Center (JSMC) and transform electronically recorded information into one (1) central software. This migration from manual process to electronically recorded process with a final inspection is a planned reduction of 3-4% of standard operating efficiency. The project will allow for inprocess asset tracking to improve quality and accountability which will modernize the facilities flexibility and capability for future army plans.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities Co	ost Analys	sis: PB 20	24 Army			Date : Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				em Number / Ti 50 / Production		VOCV-W	TCV)		
Project Title: Electronic Final I	nspection F	Records				Project Nu JSMC036	ımber:	Project Categ	ory:			
End Item Supported Model: A	brams							Annual Capac	ity Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loca	e: Joint Systems Ma		(JSMC) - Liı	ma		
A. Construction Cost	-	-	-	-	-	Facility Type	(GOGO, GOCO, C	0CO) : GOCO				
B. Equipment Cost	-	-	-	-	-	Principal Mil	estones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Desi	ign Complete:					
D. Contractor Support Cost	-	-	0.976	-	0.976	Final Design	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pi	,					
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co	•					
H. Other Costs	-	-	-	-	-	Flove Out Co	лпріесе.	Related F	Projects			
Total Project Cost	-	-	0.976	-	0.976	Project		Related I	Value			Compl
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$0.976 million support the project of taking the existing manual paper final inspection processes throughout the Joint Systems Manufacturing Center (JSMC) and transform electronically recorded information into one (1) central software. This migration from manual processes to electronically recorded processes with a final inspection is a planned reduction of 3-4% of standard operating efficiency. The project will allow for in-process asset tracking to improve quality and accountability which will modernize the facilities flexibility and capability for future Army plans.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities Co	ost Analys	is: PB 202	3 2024 Army Date: March 2023						
Appropriation / Budget Activi 2033A / 02 / 30	ty / Budge	t Sub Acti	vity:				tem Number / Tit 050 / Production B		WOCV-W7	ΓCV)		
Project Title: Level/Alignment	of Hull Mac	hines (HM) HM0035 8	& HM0036		Project No JSMC037	umber:	Project Cate	gory:			
End Item Supported Model: A	brams							Annual Capa	city Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Joint Systems Manation: Lima, OH	nufacturing Center	(JSMC) - Lir	na		
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, CO	(CO): GOCO				
B. Equipment Cost	-	-	0.700	-	0.700	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	0.277	-	0.277	Concept Des	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	Complete: roject Award:					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction						
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co	•					
H. Other Costs	-	-	-	-	-	1 TOVE OUL C	ompiele.	Related	Projects			
Total Project Cost	-	-	0.977	-	0.977	Project		Related				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of \$0.997 million support the level and alignment of hull machines (HM) #0035 and #0036 that are a part of the heavy machining line (HML) and their transport system located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. This is repeated every two years to maintain the accuracy of the machine outputs. The equipment wear will start to build compounding errors in the bearing races and machined surfaces and those errors will be reflected in the quality of the machining work that the equipment can complete. This work will keep the machined surfaces square and true which allows for production quality and reduced potential downtime.

Exhibit P-25, Production Sup	port and In	idustrial F	acilities C	ost Analys	sis: PB 20	124 Army			Date: Ma	rch 2023		
Appropriation / Budget Activity 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:			P-1 Line Item Nun 3270GC0050 / Pro			VOCV-W	ΓCV)		
Project Title: Thick Plate Mach	nining Line I	Equipment				Project Number: JMTC002	F	Project Categ	ory:			
End Item Supported Model: A	MPV, SPH	S, MPF, A	brams				A	Annual Capac	ity Befor	e / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Rock Is Facility Location: Rock	k Island, IL		ıring and Te	chnology Cer	nter (RIA-JTM0	C)
A. Construction Cost	-	-	-	-	-	Facility Type (GOGO,	GOCO, COC	O) : GOGO				
B. Equipment Cost	8.215	-	-	-	-	Principal Milestones				Month & Yea	ar	
C. Equipment Installation Cost	0.295	-	-	-	-	Concept Design Compl	lete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design Complete						
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Project Awa Construction Complete						
F. Other In-House Support Cost	-	-	-	-	-	Equipment Installation						
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Begins:						
H. Other Costs	1.659	-	-	-	-	Prove Out Complete:		Related F	Projects			
Total Project Cost	10.169	-	_	_	-	Drainat		Relateu F				Compl
			J.	I.	1	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$10.169 million support the procurement of equipment required for increasing the capacity and capability of the thick aluminum armor plate machining line at Rock Island Arsenal Joint Manufacturing and Technology Center, as well as, conduct Industrial Base studies on Organic and Commercial support to the Defense Industrial base. Machined thick plate aluminum vehicle components minimizes the dependence on welding and forgings, improving quality and decreasing lead times. This processing technology will reduce the number of welds to minimize issues associated with weld quality and reduce the propensity for shock induced weld rupture, which addresses the Armored Multi-Purpose Vehicle (AMPV) Capability Development Document (CDD) requirements for System Survivability and Force Protection. In addition, unitized structure will address "idler cracking" observed during AMPV mobility testing. Decreases in weld defects and distortions in hull structure will minimize rework and production delays. 14 AMPV components have been prototyped and are ready to be manufactured using this new production capability. Equipment includes, but is not limited to, a second roughing station, a second shuttle carriage and finishing station, and will support the automated fabrication of large machined components for the production of Army vehicles.

Equipment cost details:

- 1) Second Roughing Station: This would increase the capacity of the line and remove a single point issue with the robotic machining.
- 2) Second Shuttle Carriage with additional wait stations: This would allow more flexibility in the movement of parts on the line as well as allow longer periods of unmanned operation by allowing more stations to be prepared ahead.
- 3) Second Finishing Station: This would increase the throughput of the line and further extend unmanned operation time.
- 4) Thick Plate Machining Ancillary Equipment: Fixture manufacturing capability and refined fixtures to support the milling operations.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti		WOCV-W	TCV)		
Project Title: Tool Room Mode	ernization					Project No JMTC003	umber:	Project Categ	jory:			
End Item Supported Model: A	MPV, SPH	S, MPF, A	brams					Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Rock Island Arser		uring and Te	echnology Ce	nter (RIA-JTM	C)
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, Co	0CO): GOGO				
B. Equipment Cost	0.838	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	0.040	-	-	-	-	Concept Des	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	0.060	-	-	-	-	-	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	-	-	-	-	-	Prove Out C	ompiete.	Related I	Projects			
Total Project Cost	0.938	-	-	_	_	Duciost		Related				Compl
			I.	1	I	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$.938 million support the procurement of equipment required for increasing the capacity and precision of the tool room at Rock Island Arsenal Joint Manufacturing and Technology Center (JMTC). Equipment includes, but is not limited to, several new small machines (grinders, measuring equipment, lathes, mills) to enable fabrication of tools and fixtures for use on all JMTC programs to include the thick plate milling line. Project enables fabrication of tools and fixtures more quickly and with higher precision.

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Tit 050 / Production E		WOCV-W	TCV)		
Project Title: CNC Cutting Tab	le and Spre	eader				Project N JMTC004		Project Cate	gory:			
End Item Supported Model: A	MPV, SPH	S, MPF, A	brams					Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Rock Island Arsen ation: Rock Island, IL		turing and Te	echnology Ce	nter (RIA-JTM	C)
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, CO	(CO): GOGO				
B. Equipment Cost	0.375	-	-	-	-	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept De	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	_	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	-	-	-	-	-	Prove Out C	отпрієте.	Polatod	Projects			
Total Project Cost	0.375	-	-	-	-	Project		Relateu	_			Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the the amount of \$0.375 million support the procurement of equipment required for increasing the capacity and precision of pliable material and composite cutting at Rock Island Arsenal Joint Manufacturing and Technology Center. Equipment is includes Computer Numerical Control (CNC) cutting table (also known as a burner table) and spreader. Pliable material and composites are cut manually and are labor intensive with low precision. This investment provides automated cutting with speed, precision, and increased capacity.

Volume 1 - 301

Exhibit P-25, Production Sup	port and In	dustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / Ti 150 / Production I		WOCV-W	ΓCV)		
Project Title: Bridge Mill (Thick	k plate macl	hining line)	1			Project Nu JMTC005	ımber:	Project Categ	jory:			
End Item Supported Model: A	MPV, SPH	S, MPF, A	brams					Annual Capa	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		e: Rock Island Arser		uring and Te	chnology Ce	nter (RIA-JTM	C)
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, CO	OCO) : GOGO				
B. Equipment Cost	3.300	-	-	-	-	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	0.200	-	-	-	-	Concept Des	ign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	roject Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment In	stallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Be Prove Out Co	•					
H. Other Costs	-	-	-	-	-	Prove Out Co	ompiete.	Related I	Projects			
Total Project Cost	3.500	-	-	-	-	Project		Related				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of \$3.500 million support the procurement of equipment required for increasing the capacity and capability of the thick aluminum armor plate machining line at Rock Island Arsenal Joint Manufacturing and Technology Center. Equipment includes, but is not limited to, a bridge mill to allow machining of larger parts and steel components to support the automated fabrication of large machined components for the production of Army vehicles. This investment will increase the capability by allowing machining of larger parts and allow machining of steel components and the fixtures from the line would increase capacity since it would be able to be used as a second finishing station if workload required.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 202	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	ivity:				m Number / Ti 0 / Production	tle: Base Support (V	VOCV-W	TCV)		
Project Title: JMTC Miscelland	eous Small	Projects				Project Nur JMTC006	nber:	Project Categ	ory:			
End Item Supported Model: A	Abrams					'		Annual Capac	city Befor	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Locati	on: Rock Island, II		uring and Te	echnology Ce	nter (RIA-JTM	C)
A. Construction Cost	-	-	-	-	-	Facility Type (GOGO, GOCO, C	0CO) : GOGO				
B. Equipment Cost	-	-	-	-	-	Principal Mile	stones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept Desig	n Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design C	•					
E. Corps of Engineers Support Cost	-	-	-	-	-	Initial/Final Pro Construction C	•					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Inst	allation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out Beg Prove Out Con						
H. Other Costs	-	-	1.750	-	1.750		ipiete.	Related F	Projects			
Total Project Cost	-	-	1.750	-	1.750	Project		Related				Compl
		1				Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$1.750 million support the Abrams Tank Production Process and Abrams Industrial Base by focusing on maintaining, improving, optimizing, and modernizing the manufacturing facilities located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	ivity:				tem Number / T 050 / Production		WOCV-W	TCV)		
Project Title: Flexible Plating L	ine					Project N JMTC007	umber:	Project Cate	gory:			
End Item Supported Model: A	brams					-		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Rock Island Arse ation: Rock Island, I	IL	turing and Te	echnology Ce	nter (RIA-JTM	C)
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, C	: 000): G0G0				
B. Equipment Cost	-	-	1.236	-	1.236	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-		sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:	:				
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B Prove Out C						
H. Other Costs	-	-	-	-	-	- Flove Out C	omplete.	Related	Projects			
Total Project Cost	-	-	1.236	-	1.236	Project		Related				Compl
		1				Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$1.236 million to procure and install a flexible electroless nickel plating line to support production located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL. This project re-introduces Nickel Plating capability to JMTC. Nickel plating is used to provide corrosion and wear surface protection for several weapons system components produced by JMTC. This project will replace existing, non-industry standard sand handling system with separate systems for differing sand and product types. This will enable best possible quality for both steel and aluminum cast weapon system parts. Mold shake-out will be enhanced through the replacement of an obsolete mold handling excavator ensuring a safe excavation process. The overall impact is an increase in cast part quality, reduction in environmental and personal safety impacts, developing and installing a new flexible plating line capable of electroless nickel coating and rapid switch to other new coatings. This will reduce lead time and supply chain risk on gun system parts by creating a new organic capability for current and future coatings and supports new and obsolescent weapon system production.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date : Ma	rch 2023		
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	et Sub Acti	ivity:				tem Number / T 050 / Production		WOCV-W	TCV)		
Project Title: Sand Handling S	System					Project N JMTC008		Project Cate	gory:			
End Item Supported Model: A	Abrams							Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Loc	ne: Rock Island Arse ation: Rock Island, I	IL	turing and Te	echnology Ce	nter (RIA-JTM	C)
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, C	: 000): G0G0				
B. Equipment Cost	-	-	1.236	-	1.236	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept De	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete	:				
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B Prove Out C						
H. Other Costs	-	-	-	-	-	Prove Out C	omplete.	Related	Projects			
Total Project Cost	-	-	1.236	-	1.236	Project		Related				Compl
		1	1			Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$1.236 million to procure and install a sand handling system to support production located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL. This project will replace existing, non-industry standard sand handling systems with separate systems for differing sand and product types. This will enable the best possible quality for both steel and aluminum cast weapon system parts. Mold shake-out will be enhanced through the replacement of an obsolete mold handling excavator ensuring a safe excavation process. The overall impact is an increase in cast part quality and reduction in environmental and personal safety impacts.

Exhibit P-25, Production Sup	port and Ir	dustrial F	acilities Co	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:				tem Number / T 050 / Production		WOCV-W	TCV)		
Project Title: Upgrade Existing	g Paint Boot	ths				Project No JMTC009	umber:	Project Cate	gory:			
End Item Supported Model: A	brams					,		Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Rock Island Arse ation: Rock Island, I		turing and Te	echnology Ce	nter (RIA-JTM0	3)
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, C	: 0C0) : G0G0				
B. Equipment Cost	-	-	2.700	-	2.700	Principal Mi	lestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	1.800	-	1.800	Concept Des	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	nstallation Complete	:				
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	-	-	-	-	-	Prove Out C	отпрівів.	Related	Drojects			
Total Project Cost	-	-	4.500	-	4.500	Project		Related				Compl
						Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$4.500 million is to convert two (2) existing manual paint lines and two (2) drive-in booths through the integration of a flexible robotic paint system located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL. This will automate a manufacturing process that nearly 90% of all arsenals manufacturing components utilize. Applying modern robotics and imaging systems to existing painting and post processing infrastructure will reduce labor costs, increase safety of workers, and improve quality through consistency. Robotic paint automation can reduce raw material consumption by up to 30% due to improved paint application accuracy and limiting waste through unnecessary overspray. Operationalizing robotic painting removes the hazards of volatile organic compound exposure for employees that are currently mitigated through cumbersome and bulky personal protective equipment. Organically manufactured components will gain schedule reliability from an automated painting process achieved through an increased throughput production capacity. Flexibility to efficiently execute to a variable quantity volume, with a high mix of complexity, will enable the painting of large weapon systems as well as mid to small size subcomponents of systems.

Exhibit P-25, Production Sup	port and Ir	idustrial F	acilities Co	ost Analys	sis: PB 202	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	ivity:				tem Number / T 050 / Production		NOCV-W	ΓCV)		
Project Title: Sand Printing Pa	ckage					Project No JMTC010	umber:	Project Categ	gory:			
End Item Supported Model: A	brams					,		Annual Capa	city Befor	re / After (1	I-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Rock Island Arse ation: Rock Island, I		uring and Te	chnology Cer	nter (RIA-JTM0	3)
A. Construction Cost	-	-	-	-	-	Facility Type	e (GOGO, GOCO, C	OCO): GOGO				
B. Equipment Cost	-	-	1.500	-	1.500	Principal Mi	lestones			Month & Yea	ar	
C. Equipment Installation Cost	-	-	0.500	-	0.500		sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design	Complete: Project Award:					
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction						
F. Other In-House Support Cost	-	-	-	-	-	Equipment Ir	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B	•					
H. Other Costs	-	-	-	-	-	Flove Out G	ompiete.	Related I	Projects			
Total Project Cost	-	-	2.000	-	2.000	Project		Related				Compl
					,	Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Date
									-	1		

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$2.000 million support the procurement and installation of a sand printing package located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL. This continues the sand-casting process transformation from legacy molding techniques to a high-speed prototype and production methodology of printed sand cores and molds. This migration from manually producing wood patterns and core boxes to model based tooling development will significantly lessen the time for producing production castings and is immediately applicable to current Main Battle Tank System (MBTS) cast parts. The project incorporates robotic sand milling to produce mold cavities in an effective and efficient manner. Hard tooling will no longer be a prerequisite for creating low to medium volumes of mold cavities, reducing lead times and startup costs while improving product quality through rapid, iterative mold design.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army			Date: Ma	rch 2023		
Appropriation / Budget Active 2033A / 02 / 30	ity / Budge	t Sub Acti	ivity:				tem Number / Ti 050 / Production		WOCV-W	TCV)		
Project Title: Large, Multi-Axis	Machining					Project N JMTC011	umber:	Project Cate	gory:			
End Item Supported Model: A	brams							Annual Capa	city Befo	re / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total		ne: Rock Island Arse ation: Rock Island, Il		turing and Te	echnology Ce	nter (RIA-JTM	C)
A. Construction Cost	-	-	-	-	-	Facility Typ	e (GOGO, GOCO, C	000): G0G0				
B. Equipment Cost	-	-	7.500	-	7.500	Principal M	ilestones			Month & Ye	ar	
C. Equipment Installation Cost	-	-	-	-	-	Concept De	sign Complete:					
D. Contractor Support Cost	-	-	-	-	-	Final Design						
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction	Project Award: Complete:					
F. Other In-House Support Cost	-	-	-	-	-	Equipment I	nstallation Complete:					
G. Total Facility Project Cost	-	-	-	-	-	Prove Out B Prove Out C	•					
H. Other Costs	-	-	-	-	-	Flove Out C	omplete.	Related	Projects			
Total Project Cost	-	-	7.500	-	7.500	Project			Value			Compl
						Number	Title	FY & Appn	(\$ M)	Facing	Start Date	Date

Narrative Explanation:

FY 2024 Base procurement dollars in the amount of \$7.500 million to support the procurement and installation of two (2) different large multi-axis machining systems and supporting equipment located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL. These automated machining systems will be used to make precise and complex geometry cutting of metal sheets, plates, and blocks to support production of Cannon systems. Production quality and delivery will be modernized through improved repeatability, automation, more efficient cutting, and greater machine uptime. This project replaces outdated and unreliable existing machines with modern machines capable of producing large, machined armor components; reducing setup and run times, and enabling complex machining on next generation weapon systems.

This project is a new start in FY 2024.

Exhibit P-25, Production Sup	port and Ir	ndustrial F	acilities C	ost Analys	sis: PB 20	24 Army	Date: March 2023
Appropriation / Budget Activ 2033A / 02 / 30	ity / Budge	t Sub Acti	vity:			P-1 Line Item Number / T 3270GC0050 / Production	Title: Base Support (WOCV-WTCV)
Project Title: ATEC Facilities						Project Number: ATEC	Project Category:
End Item Supported Model:							Annual Capacity Before / After (1-8-5): /
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Army Test and E Facility Location: Various	Evaluation Command (ATEC) Facilities
A. Construction Cost	-	-	-	-	-	Facility Type (GOGO, GOCO, C	COCO):
B. Equipment Cost	-	-	-	-	-	Principal Milestones	Month & Year
C. Equipment Installation Cost	-	-	-	-	-	Concept Design Complete:	
D. Contractor Support Cost	-	-	-	-	-	Final Design Complete: - Initial/Final Project Award:	
E. Corps of Engineers Support Cost	-	-	-	-	-	Construction Complete:	
F. Other In-House Support Cost	-	-	-	-	-	Equipment Installation Complete	:

3.816

3.816

Prove Out Begins:

Project

Number

Prove Out Complete:

Title

Narrative Explanation:

G. Total Facility Project Cost

H. Other Costs

Total Project Cost

FY 2024 Base procurement dollars in the amount of \$3.816 million support the Army Test and Evaluation Command priorities at the following locations:

- Aberdeen Test Center (ATC) will continue to modernize fire control instrumentation required to assess weapon system fire control performance on a wide range of test items. Aberdeen Test Center will continue replacing and upgrading weapon, sight, and target scoring high-definition video cameras, recorders, digital video processing systems, fiber optic converters, and telemetry systems. Replacement equipment is scheduled to address obsolescence issues, software compatibility gaps, and deterioration of existing hardware while ensuring test equipment maintains pace with technological advances of test items to preclude lack of test support. Aberdeen Test Center will also procure new instrumentation that will allow Electromagnetic Interference (EMI) testing of current and future military platforms, including autonomous vehicles.
- White Sands Test Center (WSTC) will continue to maintain and upgrade existing equipment and instrumentation for the developing and evolving White Sands Missile Range (WSMR) directed energy High-Power Microwave (HPM), Electromagnetic Pulse (EMP) and lightning effects test simulators. These items include sensors, oscilloscopes, fiber optic links, vacuum systems, cryogenic superconducting magnets, waveguides, antennas, cathodes, insulators, and various cabling and subassemblies. These efforts will help White Sands Test Center meet regulatory, customer, and/or evolving mission requirements.
- Yuma Test Center (YTC) will acquire upgraded sensors, sensor positioning equipment, control hardware, signal conditioners, and other data acquisition equipment and software to modernize and improve accuracy and efficiency of ballistics data acquisition.

3.668

3.668

3.681

3.681

3.816

3.816

Related Projects

FY & Appn

Value

(\$ M)

Facing

Start Date

Compl

Date